LAND RECLAMATION COMMISSION

STATE OF MISSOURI

P.O. BOX 176 JEFFERSON CITY, MISSOURI 65102 573-751-4041

Permit to Engage in Surface Mining

LAND RECLAMATION COMMISSION

ISSUES TO

in the application, a permit is hereby granted to engage in surface mining of limestone in the state of Missouri. The extent of the	Pursuant to "The Land Reclamation Act,"	MISSOURI, RSMo 2001		ormity with the statements
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
proposed mining operation(s) will be on 657 acres, more or less	limestone	in the stat	e of Missour	ri. The extent of the
	proposed mining operation(s) will	l be on	657	acres, more or less.

See Attached List

This permit may be suspended or revoked upon violation of any or all of the conditions set forth in "The Land Reclamation Act," RSMo. 2001, or in such rules and regulations as are promulgated pursuant thereto by the Land Reclamation Commission.

IN WITNESS WHEREOF I have hereunto set my hand this

28th

day of

July

2004

The WITHIUSS WITH XIX/I Thave hereumo seeing hand to

DIRECTOR OF STA

Land Reclamation Commission

Permit No 0688

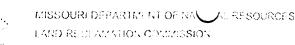
Effective Date 07/28/2004
Expiration Date 07/25/2005

Mc1780-1122 (6-95)

Company Name APAC-MISSOURI

Permit Number 0688 Expiration Date - 07/25/2005

County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
Camden	16	38N	16 W	80	0	80	Linn Creek South	0641
Camden	16	38N	16W	35	0	35	Linn Creek North	0636
Christian	15	25N	21W	25	0	25	Busiek	0638
McDonald	36	22N	33W	44	0	44	Lanagan	0640
Miller	20, 29	40N	15W	40	0	40	Quarry #14	0646
Miller	07	40N	15W	50	0	50	Quarry #13	0645
Miller	25, 26	42N	151%	20	0	20	Quarry #12	1298
Morgan	20	42N	16W	50	0	50	DYL	0649
Morgan	21	40N	17W	60	0	60	Prestage	0642
Taney	24, 25	23N	22W	23	0	23	Roark Creek	0648
Cooper	22, 23	48N	17W	30	0	30	Boonville	0184
Saline	22, 27	49N	21W	73	0	73	Marshall	0186
Saline	02	51N	19W	15	0	15	HWY 240	0185
Caldwell	01, 12 06, 07	57N 57N	27W 26W	65	0	65	Nettleton	0520
Miller	33	40N	15W	15	0	15	Hudson Hollow	1938
Daviess	08	59N	27W	32	0	32	Gallatin	0051
			<u> </u>	†				



RECFIVED

JUL - 9 2004

9.0 ROX 176 0710-20163 CM (117) NOSHELL

PERMIT RENEWAL FORM FOR INDUSTRIAL MINERAL MINES

APAC Missouri, Inc., Missouri Di		MISSOURI RECLAMATIONE C	OMMISSI	July 8, 2004		
P.O. Box 1117	Cit	Columbia	1	MO	65205	
	•		- -	l 15 meter	00200	
Brett E. Geger			;	573-	449-0886	
FEES: COMPLETE SECTION FOR	SECTION II					
Section I. Fees: Open pit operators and gravel:	d those mining more th	ian five thousand (5	,000) to	ns of sand	and/or	
1. To compute the site fee complete the c	olumns and lines below	<u>.</u>	. ,			
SITE NAME OR NUMBER (add a separate sheet for	Mark each month	that the site will b			less than six (6) year pay \$150.00	
additional sites)	operated during th		For	, ,	six (6) months or	
see attached list	Jan, Feb. Mar, Apr, May, Ju	n, Jul, Aug, Sep, Oct, Nov, I		4,800	ar pav 3300.00	
2.	Jan, Feb, Mar, Apr, May, Ju	n, Jul, Aug, Sep, Oct, Nov, I	Dec S		-	
3.	Jan, Feb, Mar, Apr, May, Ju	n, Jul. Aug, Scp, Oct, Nov, I	Occ S			
4.	Jan, Feb, Mar, Apr, May, Ju	n , Jul, Aug, Sep, Oct, Nov, I	Dec S			
5. 6.	Jan, Feb, Mar, Apr, May, Ju	n, Jul, Aug, Sep, Oct, Nov, I	Dec S			
6.	Jan, Feb, Mar, Apr, May, Ju	n, Jul, Aug, Scp, Oct, Nov, I	Dec S			
7.	Jan, Feb, Mar, Apr, May, Ju	n, Jul, Aug, Sep, Oct, Nov, I	Dec S			
8.	Jan, Feb, Mar, Apr, May, Jun	n, Jul, Aug, Sep, Oct, Nov. 1	Dec §			
9.	Jan. Feb, Mar, Apr, May, Jun	n, Jul, Aug, Sep, Oct, Nov, I			-	
10.	Jan, Feb, Mar, Apr, May, Jun	n, Jul, Aug, Scp, Oct, Nov, I	Dec S			
TOTAL SITE FEE			S	4,800		
2. Acreage fee: \$5 X 659 number of ac	res bonded		\$ \$	3,2 9 5		
3. Annual permit fee:				500.00		
		·		3,5 8 5		
4. Total Fee: Add totals from 1, 2, and 3				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
NOTE: If	Total Fee exceeds \$2,50	00.00 then pay only -	\$ <u>2,5</u>	00.00		
SECTION II. FEES: Sand and/or grave	el operators mining less	than five thousand (5	,000) tor	is per year:		
1. Annual Permit Fee			\$	300.00		
Sixt lege	Env	vironmental Manag	er	July 8, 20	04	
Appeared before me this 8th day of Julknown, who executed the above as their free acts		BRETT GEGER		to	me personally	
NOTARY FUBLIC EMBOSSER SEAT STATE	MISSOURA			DR CHY OF STEER	(2)	
The state of the s	C. AND SWURNELFORE MET THE	1	<i>5</i> 0	ONE		
(HÓ) (NÃ)	DAY JU	March 194		WARREN L. H tary Public - N		

EXPRATION DATE

State of Missouri Boona County My Commincian Dipires March 25, 2008





MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION SITE INFORMATION FORM

FEB 4 2004

SITE INFORMATION FORM MISSOURI LAND To be completed for each separate area of disturbance associated with mining operations. SITE NAME OR NUMBER PERMIT NUMBER **Gallatin Quarry** 0688 COMPANY NAME APAC Missouri Inc. COUNTY 1/4 SECTION SECTION SE **Daviess** 8 TOWNSHIP RANGE ACRES 27W 59 32 (bonded) 253 (long range) RIVER OR STREAM NAME (FOR IN-STREAM ACRES) MINERAL COMMODITY ESTIMATED TONS/YEAR (FOR GRAVEL SITES) Limestone

NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE)		
Barney and Robin Esbeck		
ADDRESS		
RR#3		
CITY	STATE	ZIP CODE
Gallatin	MO	64640
SOURCE OF RIGHT TO MINE (CHECK ONE):		DATE OF AGREEMENT
MINERAL DEED	X LEASE	10/01/91
WARRANTY DEED	VERBAL AGREEMENT	<u> </u>
OTHER (DESCRIBE):		
Control of the contro		

•		
Same as About		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE):		DATE OF AGREEMENT
MINERAL DEED	LEASE	
WARRANTY DEED	VERBAL AGREEMENT	
OTHER (DESCRIBE):		

MO 780-1327 (12-91)

PERMIT NO.

APAC MO INC. JEFFERSON CITY, MO 65102

P.O. BOX 176

PAGE 1 OF 5

TYPE OF PLAN (CHECK ONE):	Limpus Augrino Ton
SHORT TERM, FOR ONE PERMIT YEAR	COMPANY NAME Limpus Quarries, Inc.
X LONG TERM, FOR PERIOD THROUGH DATE: $12/31/2$	2011 2104 to 210/04
DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMM: AND TOPOGRAPHY.	MISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL VEGETATION
	is steeply sloped and heavily wooded. Topsoil,
The area is bordered on the We Rd. #607, and on the East by the	est by County Rd. #606, the South by County he Grand River.
•	RECEIVED
	DEC 3 2001
	MISSOURI LAND
OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.	
A. TOPSOIL	
AVERAGE DEPTH OF TOPSOIL PRIOR TO LAND RECLAMATIO	
	$0-12$ INCHES YES OR $\overline{\boxtimes}$ NO
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL R	REMOVAL
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL S	STORAGE AND PROTECTION
Topsoil will be stockpiled b	by dozers, loaders, and trucks.
The stockpiles will be shape from erosion until such time	ed and seeded, if necessary, to protect them e they are used to complete reclaimed areas.

• .	٠.	
. SPOIL		
ESCRIBE	METHODS	AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL
S	Stockp	iled with loaders and trucks to be used in ongoing reclamation.
,		R⊏CEIVED
		DEC 3 2001
		MISSOURI AND
	MATERI METHODS	ALS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)
]	None	
		ATION (GIVE ALL DIMENSIONS IN FEET)
DESCRIBE	ELOCATIO	N AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS
1	Co	no mana and photos
	26	ee maps and photos
VES	N.C	
YES	NO	
	\overline{XX}	Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?
_	<u> </u>	
	\(\bar{X}\)	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
	XX	Will any excavation start at or within fifty feet (50") of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)
_		(100 to 11 the anomer to you to entry earner may be needed.)
40 780-175	27 (12-5:1	PAGE 2 OF

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2. A. REVEGETATION (Attach additional sheets, if needed)							
REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME					
#1	Pasture	Spring or Fall					
DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING							

Standard methods and equipment as dictated by circumstances.

Seed will be broadcast and/or drilled as required to establish CEN revegetation.

> DEC 3 2001

MISSOUR

Spring or Fall

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Tall Fescue	15#		
Ladino Clover	1#		
	•		
REVEGETATION MIX =2	FURPOSE OR LAND USE	. 3 SEEDING OR PL	NTING TIME

Wildlife Cover DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Standard methods and equipment os dictated by circumstances.

Seed will be broadcast and/or drilled as required to establish revegetation

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Orchard Grass	6#		
Lespedeza	15#		
	·		
• •			

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

#O 780-1327 (12-91)

PAGE 3 OF 5

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

All spoil areas will be graded to slopes traversable by farm equipment.

Highwalls will be sloped to $40\,^{\circ}$ or less where practical and revegetated.

Pit floor areas not utilized for spoil disposal or water impoundment will be used for industrial development.

RECEIVED

DEC 3 2001

MISSOURI LAND

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

Grading will be done as depletion occurs and spoil is placed to finish grade in the mined-out portions. Final grading will be completed within one year of permit expiration on all mined-out portions.

REPLACEMENT OF TOPSOIL

Topsoil will be replaced within 12 months after expiration of permit.

REVEGETATION

All topsoil areas will be seeded within 24 months after permit expires.

10 -----

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

D. USE OF LAND WHEN RECLAIMED	
Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	35
Agricultural (pasture, cropland, and horticultural)	150
Development (residential, industrial, and recreational)	50
Water impoundments (for wildlife, agricultural, or development)	18

FEB 4 2004

By my signature, I attest to the following:

MISSOURI LAND RECLAMATION COMMISSION

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company I am authorized to represent intends to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.790, RSMO 2001, and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- I have obtained the approval of all landowner's, (for all lease agreements made after August 28, 1990 on leased land) for all proposed post-mining land uses.
- 4. I have obtained the approval of all landowner's, (for all lease agreements made after August 28, 1990 on leased land) for all proposed seed mixtures.
- 5. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT		TITLE			DATE
Alallus		President			28 January 2004
NOATRY PUBLIC EMBOSSER SEAL	STATE MUSSOURS SUBSCRIBED AND SW	Í VORN BEFOR	E ME, THIS	BOON E	·
		JANUARY			MP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGN	for	MY COMMISSION EXPIRES 3/25/06	Notary Publi	N L. HARMS c - Notary Seal & Missouri
	WARREN L.	•	•		e County prires March 25, 2006
				176	

MO 780-1327 (01-02)

PERMIT NO.

0688

SITE NO HOR NAME

Gallatin Quarry

Page 5 of 5





JUL 1 0 2002

SITE INFORMATION	FORM		R(MISSOURI LAND ECLAMATION COMMISSION	
To be completed for each separate are	ea of disturbance associa	ated with mining operation	ns.	- WHOM COMMISSION	
ITE NAME OR NUMBER		PERMIT NUMBER			
Hudson Hollow Quarry		688			
COMPANY NAME					
APAC-Missouri, Inc.					
COUNTY	1/4 SECTION		SECTION		
Miller			3	3	
TOWNSHIP	RANGE	RANGE ACRES			
40N	15W	15W		5	
RIVER OR STREAM NAME (FOR IN-STREAM A	CRES)		_1		
MINERAL COMMODITY		ESTIMATED TONS/YEAR (FOR GRAVEL	SITES)	
Limestone					
NAME OF LANDOWNER (ATTACH LIST IF MOR	DE THAN ONE)				
	·				
Lake Ozark-Osage Beach Joint Se	ewer Treatment Plant E	Board			
Woodriver Landing Rd.					
CITY		STATE		65065	
Lake Ozark		МО		03003	
SOURCE OF RIGHT TO MINE (CHECK ONE): MINERAL DEED		L20		DATE OF AGREEMENT 9/1/2001	
		LEASE			
WARRANTY DEED		U VERBAL AGREEMENT			
OTHER (DESCRIBE):					
MINERAL RIGHTS OWNER (ATTACH LIST IF N	IORE THAN ONE)				
Same as above.					
ADDRESS					
CITY		STATE		ZIP CODE	
SOURCE OF RIGHT TO MINE (CHECK ONE):				DATE OF AGREEMENT	
MINERAL DEED		LEASE			
WARRANTY DEED		VERBAL AGREEMENT			
OTHER (DESCRIBE):					
. ,					
NOTE: Each site must be shown on a	map and be included in	a public notice and an ap	proved min	e plan.	
O 780-1036 (12-91)					



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JUL 1 0 2002

P.O. BOX 176 JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE): SHORT TERM, FOR ONE PERMIT YEAR LONG TERM, FOR PERIOD THROUGH DATE:	MISSOURI RECLAMATION C	LAND OMMISSION
DESCRIPTION OF SITE PRIOR TO LAND RECLAMATIC AND TOPOGRAPHY.	•	PRIOR OPERATOR), INCLUDING SOIL, VEGETATION
This plan covers an area of approximate sloped and wooded with mainly oak and rocky clay hardpan and cherty soil. The plant.	scrub brush. There is very little if any	topsoil. Overburden consists mainly of
OPERATION PLAN - 10 CSR 40-10.020(2)(E	D)1.	
A. TOPSOIL		
AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND REC	LAMATION COMMISSION PERMITTING	IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
	0-6 INCHES	YES OR NO
Any present topsoil is removed with doz development or used to cap perimeter by		pile areas as needed for site
DESCRIBE METHODS AND EQUIPMENT USED FOR T	OPSOIL STORAGE AND PROTECTION	
Any topsoil present will be redistributed stable location in a stockpiled seeded will		

MO 780-1327 (12-91)

JUL 1 0 2002

B. SPOI	L		
DESCRIBE	METHODS	DS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL SECLAMATION	TLAND COMMISSION
		al will be placed in fill areas as needed to accommodate site development and/or alors needed for perimeter buffer zone berms.	ng the permit
C. ACIE	MATER	FRIALS	
		DS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BEI	
None.			
D. PIT	NFORM	MATION (GIVE ALL DIMENSIONS IN FEET)	
		ION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS	
See at	tached d	detail map.	
300			
YES	NO		
	Ď	Will any excavation be at or within fifty feet (50') of the right-of-way of any public road	?
	X	Will any highwall consisting of unconsolidated materials be left within fifty feet of public road? (NOTE: For unconsolidated materials left in place, a slope of no more start near the right of way, and in no case may the excavation be closer to the right or twenty-five feet plus one and one-half (1-1/2) times the depth of unconsolidated greater, unless a variance is granted by the Commission.)	than forty degrees may nt of way than fifty feet
\square		Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)	

MO 780-1327 (12-91)



RECLAMATION PLAN - 10 CSR 40-		JUL 1 0 2002		
	onal sheets, if needed)		·	
REVEGETATION MIX #1 Fescue/Red Clover	Purpose of Land use Commercial Develop	menMISSOURI LAND	B. SEEDING OR PLA First optimal p	eriod following grading.
DESCRIBE METHODS AND EQUIPMENT TO			DN	
This site is being mined for development as possible buffer zone perimet seeded to prevent erosion.	ment purposes. Overburden at er berms. All unconsolidated	t the site will be used to material left along high	facilitate operat wall fringes will	ion site preparation as be graded, disced and
ime and fertilizer will be applied ac		s made, based on an an	alysis of soil te:	kture and nutrients. Muk
will be applied to all slopes exceedin	POUNDS/ACRE	TREE OR SHRUB	SPECIES	STEMS/ACRE
Fescue	20			
Red Clover	5			
Annual Rye (spring)	10			
Wheat (fall/winter)	bushel			ı
REVEGETATION MIX #2	PURPOSE OR LAND USE		B. SEEDING OR PLA	INTING TIME
DESCRIBE METHODS AND EQUIPMENT TO	BE USED FOR SEEDING ON FERNING			
Lime and fertilizer will be applied a will be applied to all slopes exceeding		s made, based on an ar	nalysis of soil te	xture and nutrients. Mul
SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUE	3 SPECIES	STEMS/ACRE
	:			

MO 780-1327 (12-91)

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

PAGE 3 OF 5

B. GRADING	JUL 1 0 2002
DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES	305 1 0 2002
The floor of the quarry will be left open so it is suitable for development with a durable surface.	MISSOURI LAND RECLAMATION COMMISSION
C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES GRADING	
Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).	
REPLACEMENT OF TOPSOIL	
Replacement of the best available material will be completed as per 10 CSR 40-10.050 (10) (A).	
REVEGETATION	
Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).	
AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES) 12 inches of best available material.	
D. USE OF LAND WHEN RECLAIMED	
Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	15

MO 780-1327 (12-91)

Water impoundments (for wildlife, agricultural, or development)

JUL 1 0 2002

By my signature, I attest to the following:

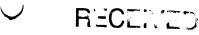
MISSOURI LAND RECLAMATION COMMISSION

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT	$\mathcal{O}_{\mathcal{A}}$	TITLE		DATE	
1 moshy Bo	aukon	Vice President	7	191202.	
NOTARY PUBLIC EMBOSSER SEAL	STATE Missouri		COUNTY (OR CITY	Y OF ST. LOUIS)	
·	SUBSCRIBED AND SWORN BEFORE ME, TH		Boon	6	
	DAY OF JUL	y # 2002	-USE RUBBER	STAMP IN CLEAR AREA BI	ELOW
(NOTARY PUBLIC SIGNATURE	MY COMMISSION EXPIRES 3/25/06	Notar	ARREN L. HARMS by Public - Notary Seal State of Missouri	
	NOTARY PUBLIC NAME (TYPED OR PRINTED) WARREN L. HARMS		My Commis	Boore County sion Expires March 25, 2006	6
APPROVED BY (DIRECTOR'S REPI	RESENTATIVE)	DATE APPROVED		PERMIT NUMBER	
Jany D	est's	07/18/0	2	0688	
MO 780-1327 (12-91)		,		PAG	E 5 OF 5

PAGE 5 OF 5





FEB - 6 2002

To be completed for each separate	area of disturbance associa	ted with mining operat	ions.	MISSOUR LAND
SITE NAME OR NUMBER		PERMIT NUMBER		THE ALCOHOLOGICAL
Quarry #13		0688		
COMPANY NAME				
APAC-Missouri, Inc.				
COUNTY	1/4 SECTION		SECTION	
Miller			7 &	: 12
TOWNSHIP	RANGE		ACRES	
40N	15W & 1	15W & 16W		110
RIVER OR STREAM NAME (FOR IN-STREAM	M ACRES)			
	·			
MINERAL COMMODITY		ESTIMATED TONS/YEA	R (FOR GRAVE) SI	res)
Limestone			(1 011 011.11122 01	. 20,
NAME OF LANDOWNER (ATTACH LIST IF I	MORE THAN ONE)			
APAC-Missouri, Inc.				
ADDRESS				
1591A Prathersville Road				
CITY		STATE	Z	IP CODE
Columbia		МО		65202
SOURCE OF RIGHT TO MINE (CHECK ONE	E) :		D	ATE OF AGREEMENT
MINERAL DEED		LEASE		
WARRANTY DEED		VERBAL AGREEMEN	NT L	
OTHER (DESCRIBE):				
MINERAL RIGHTS OWNER (ATTACH LIST) Same as Landowner	IF MORE THAN ONE)			
			m : 0 = 0	
ADDRESS				
CITY		STATE	2	IP CODE
			İ	
SOURCE OF RIGHT TO MINE (CHECK ONE	E):		C	ATE OF AGREEMENT
	E):	LEASE	C	ATE OF AGREEMENT
SOURCE OF RIGHT TO MINE (CHECK ONE	Ξ):	LEASE VERBAL AGREEMEN		ATE OF AGREEMENT

MO 780-1036 (12-91)



MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION MINE PLAN

RECEIVE

FEB - 6 2002

MISSOUR! LAND

P.O. BOX 176 JEFFERSON CITY, MO 65102

		MANAGE IS II VIII
TYPE OF PLAN (CHECK ONE):	REGINATION O	DIVINISSICIA
SHORT TERM, FOR ONE PERMIT YEAR	February 10, 2035	
2 LONG TERM, FOR PERIOD THROUGH DATE:		
RESCRIPTION OF SITE PRIOR TO LAND RECLAMAT LIND TOPOGRAPHY.	ION COMMISSION PERMITTING (BY APPLICANT OR	PRIOR OPERATOR), INCLUDING SOIL, VEGETATION
	tely 110 acres. Most of the mine site lies ash. There is very little if any topsoil. Ov	
OPERATION PLAN - 10 CSR 40-10.020(2)	(D)1.	
A. TOPSOIL AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RE	CLAMATION COMMISSION PERMITTING	IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
	Negligible INCHES	YES OR NO
DESCRIBE METHODS AND EQUIPMENT USED FOR	TOPSOIL REMOVAL	
commercial or industrial development.	d scrapers and stored out of the way to be Enough growth medium will be retained will be protected by seeding with fast grow	d to accommodate vegetative growth on
DESCRIBE METHODS AND EQUIPMENT USED FOR	TOPSOIL STORAGE AND PROTECTION	
Overburden will be stored and seeded	until used for site development.	

BL 5/201 DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL MISSOULE LAND FIECLAWATION COM TOXION Spoil material will be removed, stored, and protected on permitted acres for site development. C. ACID MATERIALS DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW) None. D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET) DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS See attached detail map. YES NO Will any excavation be at or within fifty feet (50') of the right-of-way of any public road? X Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.) \square Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.) MO 780-1327 (12-91) PAGE 2 OF 5



RECLAMATION PLAI					
A. REVEGETATION	(Attach additional			11222	
REVEGETATION MIX #1 Fescue/Red Clover		PURPOSE OR LAND USE Commercial Develop	ment	B. SEEDING OR PLAN	eriod following grading.
		SED FOR SEEDING OR PLANTI		rust optimal pe	Tiod following grading.
Pit areas will be left of	open to develop for	commercial or industrial onle material to obtain a go	development. The distur	rbed areas aroun	d the pit will be disced,
will be applied to all s	slopes exceeding 5:	1.			ture and nutrients. Mulch
SEEDED SF	PECIES	POUNDS/ACRE	TREE OR SHRUB	SPECIES	STEMS/ACRE
Fescue		20			
Red Clover		5			
Annual Rye (spring)		10			
Wheat (fall/winter)		bushel			
REVEGETATION MIX #2		PURPOSE OR LAND USE		B. SEEDING OR PLAI	NTING TIME
Lime and fertilizer will be applied to all			s made, based on an an	alysis of soil tea	cture and nutrients. Mulch
SEEDED S	PECIES	POUNDS/ACRE	TREE OR SHRUB	SPECIES	STEMS/ACRE

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES	
Pit will be left open for commercial or industrial development with a flat durable surface. Any remain unconsolidated material above the highwalls will be graded to a slope traversable by farm machinery.	ing spoil material and/or
REC	CEIVED
het	o 6 2002
nais.	SSOURI LAND
RECL/M/	ATION COMMISSION
C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES	
GRADING	
Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).	
REPLACEMENT OF TOPSOIL	
Replacement of the best available material will be completed as per 10 CSR 40-10.050 (10) (A).	
REVEGETATION	MANUFACTURE AND ADDRESS AND AD
Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).	
AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES) 12 inches of best available material	
D. USE OF LAND WHEN RECLAIMED	
Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	
Agricultural (pasture, cropland, and horticultural)	1
Development (residential, industrial, and recreational)	110
Water impoundments (for wildlife, agricultural, or development)	
MO 780-1327 (12-91)	PAGE 4 OF

B. GRADING

RECENTED

FEB - 6 2002

By my signature, I attest to the following:

THE MESOURI MAD THE MISSION

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. For the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT	TITLE	DATE
Kechon Llah	Vice President	2/5/02
NOTARY PUBLIC EMBOSSER SEAL STATE MISSOURI		COUNTY (OR CITY OF ST. LOUIS)
SUBSCRIBED AND SWORN BEFORE ME.		BOONE
DAY OF FEB	pully 15 2002	USE RUBBER STAMP IN CLEAR AREA BELOW
NOTARY PUBLIC SIGNATURE Resure January	MY COMMISSION EXPIRES 3/25/02	WARREN L. HARMS Notary Public - State of Missouri Commiscioned in Boone County
NOTARY PUBLIC NAME (TYPED OR PRINTED) WALLEN L. HARUS		My Commission Expires March 25, 2002
APPROVED BY (DIRECTOR'S REPRESENTATIVE)	DATE APPROVED	PERMIT NUMBER
Karry Horst	07/18/0	0688
MO 780-1327 (12-91)	,	PAGE 5 OF 5

AUG 2 3 2001



MO 780-1036 (12-91)

MISSOURI LAND RECLAMATION COMMISSION

SITE NAME OR NUMBER	disturbance associated with mining		
BITE NAME OF NUMBER	PEHMIT NOME	SEH .	
Marshall Quarry		688	
APAC-Missouri, Inc.			
COUNTY	1/4 SECTION	SECTION	
Saline		27	
TOWNSHIP	RANGE	ACRES	
49N	21W	63	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES			
MINERAL COMMODITY	ESTIMATED T	ONS/YEAR (FOR GRAVEL SITES)	
Limestone			
NAME OF LANDOWNER (ATTACH LIST IF MORE TH	AN ONE)		
	AN ONLY		
Pearl Brooks ADDRESS			
Route 2, Box 17P			
CITY		ZIP CODE	
Marshall		MO 65340	
SOURCE OF RIGHT TO MINE (CHECK ONE):		DATE OF AGREEMENT	
MINERAL DEED	☐ LEASE	6/29/2001	
WARRANTY DEED		VERBAL AGREEMENT	
OTHER (DESCRIBE):			
MINERAL RIGHTS OWNER (ATTACH LIST IF MORE	TUAN ONE)		
MINERAL RIGHTS OWNER (ATTACH LIST IF MORE	THAN ONE)		
APAC-Missouri, Inc.			
AUDRESS			
P.O. Box 1117 CITY	STATE	ZIP CODE	
Citi			
Columbia	МО	65205 DATE OF AGREEMENT	
SOURCE OF RIGHT TO MINE (CHECK ONE):	🖎 LEASE	6/29/01	
MINERAL DEED			
MINERAL DEED WARRANTY DEED		GREEMENT	



AUG 2 3 2001



MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION MINE PLAN

MISSOURI LAND RECLAMATION COMMISSION P.O. BOX 176 JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):	
SHORT TERM, FOR ONE PERMIT YEAR	
LONG TERM, FOR PERIOD THROUGH DATE: August 31, 2037	
DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR AND TOPOGRAPHY.	PRIOH OPERATOR), INCLUDING SOIL, VEGETATION
This plan covers an area of approximately 63 acres. Most of the mine site lies is sloped made up of wooded and open pasture areas. Topsoil ranges from sparse clay hard pan.	
OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.	
A. TOPSOIL	
AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING	IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
INCHES	YES OR NO
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL	
Topsoil and Overburden are removed with dozers and/or scrapers and placed in development or used for perimeter buffer zone berms.	fill areas as needed for site
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION	
NA	

NOV 1 4 2001

B. SPOIL		MISSOURI LAND FCLAMATION COMMISSIO
		AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL
C:1		ill he pleased in fill areas as peeded to accommodate site development and/or along the permit
		vill be placed in fill areas as needed to accommodate site development and/or along the permit eeded for perimeter buffer zone berms.
C. ACID	MATERI	AI C
		AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)
None.		
		\cdot
D PIT I	NEORMA	TION (GIVE ALL DIMENSIONS IN FEET)
		N AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS
See att	tached de	etail map.
map as	s referen	ern permit boundary, the pit excavation will proceed no further than indicated on the attached detail ced "Excavation Boundary". A berm will be constructed along the boundary between the undisturbed
area ar	nd the ex	cavation.
YES	NO	
	Ž	Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?
	[3]	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any
		public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
	X	Will any excavation start at or within fifty feet (50') of any property line? Highwall along north property line will be (NOTE: If the answer is "yes", a safety barrier may be needed.)



AUG 2 3 2001

REVEGETATION (Attach add	itional sheets, if needed)	B. SEEDING OR F	II ANTINO TIME
escue/Red Clover	Commercial Develop		period following grading.
SCRIBE METHODS AND EQUIPMENT T	1 .	· · · · · · · · · · · · · · · · · · ·	period following grading.
		en at the site will be used to facilitate ed material left along highwall fringes	
me and fertilizer will be applied Il be applied to all slopes exceed SEEDED SPECIES		made, based on an analysis of soil	STEMS/ACRE
escue	20		
ed Clover	5		
annual Rye (spring)	10		
Vheat (fall/winter)	bushel		
VEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR F	LANTING TIME
SCRIBE METHODS AND EQUIPMENT T	O BE USED FOR SEEDING OR PLANT!	NG	

will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRI
	,		

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

AUG 2 3 2001

B. GRADING	RECLAMATION COMMISSION
DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES	ALCLAMATION COMMISSION
The floor of the quarry will be left open so it is suitable for development with a durable surface.	
C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES	
GRADING	
Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).	
REPLACEMENT OF TOPSOIL Replacement of the best available material will be completed as per 10 CSR 40-10.050 (10) (A).	
REVEGETATI: N	
Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).	
AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES) 12 inches of best available material.	
D. USE OF LAND WHEN RECLAIMED	
Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	63
Water impoundments (for wildlife, agricultural, or development)	

MO 780-1327 (12-91)

AUG 2 3 2001

MISSOURI LAND RECLAMATION COMMISSION

By my signature, I attest to the following:

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT		TITLE		DATE
Hickory	I Bah	Vice President		8-23-01
	STATE Missouri SUBSCRIBED AND SWORN BEFORE ME, TH	is	COUNTY (OR CITY OF ST. LOUIS) BOONE	
	23 DAY OF AUG			R STAMP IN CLEAR AREA BELOW
	MOTARY PUBLIC SIGNATURE	MY COMMISSION EXPIRES 3/25/02	^!otaŋ	WARREN L. HARMS y Public - State of Missouri
NOTARY PUBLIC NAME (TYPED OR P WARPEN L. H			Lomn	niasioned in Boone County ission Expires March 25, 2002
APPROVED BY (DIRECTOR'S REPR	ESENTATIVE)	DATE APPROVED		PERMIT NUMBER
Larry	Hero &	01/07/	02	0688
MO 780=1327 (12-91)		/		PAGE 5 OF 5



SITE NAME OR NUMBER	PERMIT NUMBER	MICCOURT
Marshall Occurs	0600	MISSOURI LAND RECLAMATION COMMISSION
Marshall Quarry	0688	
APAC-Missouri, Inc.		
COUNTY	ION	»ECTION
Saline		27
FOWNSHIP	RANGE	ACRES
T49N	21W	30
RIVER OR STREAM NAME (FOR IN-STREAM ACRE	ES)	
MINERAL COMMODITY	ESTIMATED TONS/YEAR (FO	DR GRAVEL SITES)
Limestone		
NAME OF LANDOWNER (ATTACH LIST IF MORE)	THAN ONE)	
Elsie Walker	·	
ADDRESS		
Rural Route 1		
DITY	STATE	ZIP CODE
Marshall	МО	65340
BOURCE OF RIGHT TO MINE (CHECK ONE):		DATE OF AGREEMENT
MINERAL DEED	X LEASE	Aug 24,1998
WARRANTY DEED	VERBAL AGREEMENT	Aug. 24,1998 Per Telephone conversation W/APAC contact person 05/23/01
OTHER (DESCRIBE):		w/ APAC contact person
MINERAL RIGHTS OWNER (ATTACH LIST IF MOR	E THAN ONE)	
APAC-Missouri, Inc.		
ADDRESS		
P.O. Box 1117		
CITY	ATE	ZIP CODE
Columbia	МО	65205
SOURCE OF RIGHT TO MINE (CHECK ONE):	_	DATE OF AGREEMENT
MINERAL DEED	X LEASE	Aug. 24, 1998
WARRANTY DEED	VERBAL AGREEMENT	Per telephone conversation
OTHER (DESCRIBE):		Aug. 24, 1998 Restelephone conversation W/APAC contact parson. 05/23/01 2





MAR 2 7 2001

To be completed for each separate area of	f disturbance associate	ed with mining operations	MISSOURILAND	
SITE NAME OR NUMBER		PERMIT NUMBER	MISSOURI LAND RECLAMATION COMMISSION	
Marshall Quarry		0688		
COMPANY NAME				
APAC-Missouri, Inc.				
COUNTY	1/4 SECTION		SECTION	
Saline			25 22	
TOWNSHIP	RANGE		ACRES 05/04/01	
49N	21W		104	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES	<u> </u>			
MINERAL COMMODITY		ESTIMATED TONS/YEAR (FO	OR GRAVEL SITES)	
Limestone				
NAME OF LANDOWNER (ATTACHLUCT IS AGONET	IAN ONE			
NAME OF LANDOWNER (ATTACH LIST IF MORE THAT APAC-Missouri, Inc.	IAN UNE)			
		-		
ADDRESS D.O. Dow 1117				
P.O. Box 1117				
CITY		STATE	ZIP CODE	
Columbia		МО	65205	
SOURCE OF RIGHT TO MINE (CHECK ONE):			DATE OF AGREEMENT	
MINERAL DEED		LEASE		
WARRANTY DEED		U VERBAL AGREEMENT		
OTHER (DESCRIBE):				
MINERAL RIGHTS OWNER (ATTACH LIST IF MORE	THAN ONE)			
APAC-Missouri, Inc.				
ADDRESS				
P.O. Box 1117				
CITY		STATE	ZIP CODE	
Columbia		МО	65205	
SOURCE OF RIGHT TO MINE (CHECK ONE):			DATE OF AGREEMENT	
MINERAL DEED		LEASE		
WARRANTY DEED		VERBAL AGREEMENT	L	
OTHER (DESCRIBE):				
NOTE: Each site must be shown on a maj	and he included in a	nublic notice and an ann	royed mine plan	
THO TE: Each site must be shown off a maj	Janu De Miciudeu (II a	poone notice and an app	torou mino pian.	



MISSOURI DEPARTMENT ON ATURAL RESOURCES LAND RECLAMATION COMMISSION

MINE PLAN

MARSHALL OUARRY



P.O. BOX 176 JEFFERSON CITY, MO 65102

-444	MINE PEAN	MARSHALL OU	ARRY	MISSC	DURI LAND	JEFFERSON CITY, MO 65102
	N (CHECK ONE):			RECLAMATION	V COAAAA	
SHORT T	ERM, FOR ONE PERMIT YEAR			RECLAMATION	· COMMISSIO	ON
LONG TE	RM, FOR PERIOD THROUGH DATE:	31 July 203				·
DESCRIPTION AND TOPOGE	N OF SITE PRIOR TO LAND RECLAMAT RAPHY.	ION COMMISSION P	ERMITTING (BY A	APPLICANT OR F	PRIOR OPERATO	DR), INCLUDING SOIL, VEGETATION
The mine rockey.	e area is gradually slo	ped, open pa	sture and	partially	wooded.	The soil is poor and
						ì
	ON PLAN - 10 CSR 40-10.020(2)(D)1.				
A. TOPSO						
AVERAGE DE	PTH OF TOPSOIL, PRIOR TO LAND RE	CLAMATION COMMI	SSION PERMITTI	NG	IS TOPSOIL TO	BE SOLD OR DISCARDED OFFSITE?
		_	11	INCHES	YES OR	NO NO
DESCRIBE M	ETHODS AND EQUIPMENT USED FOR	TOPSOIL REMOVAL				
scrapers	ne trees are removed by s. The soil will be st striped and stockpiled	ockpiled on				

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

The soil will be stockpiled with trucks, loaders, and scrapers. After piling is completed, the pile will be struck and seeded to prevent erosion.

MO 780-1327 (12-91)

B. SPOIL DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL Overburden will be removed and sold. The overburden that in not sold will be placed in the mined out portions of the pit and graded. This is an active spoil pile. Once it becomes inactive, it will be finished graded and used asa an industrial site. See site map. Overburden consists of soil, dirt, cap rock, and other unconsolidated material. C. ACID MATERIALS DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW) None is anticipated. D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET) DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS See site map.

YES	NO	
	k.	Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?
	k	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
	k	Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)
140 700 400	. (40.04)	

MARSHALL OUARRY

RECL	AMA	TION	PLA	N - 10	CSR	40-10	.020(2)	D)2.

A.	REVEGE	ETATION	(Attach additional	sheets	if needed)

[The state of the			
REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME	
1	pasture	spring (March-May)	

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

During the first spring following topsoil replacement the seed mix will be broadcast and harrowed.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

15 lbs./acre 25 lbs./acre		
PURPOSE OR LAND USE		ANTING TIME
_	25 lbs./acre	25 lbs./acre

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Four wheeler and broadcast spreader.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
alfalfa fescue Kentucky 21	15 lbs./acre 25 lbs./acre		

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

All spoils will be sloped to prevent erosion, also where necessary the slopes will be made traversable for appropriate machinery. The rest of the pit will be made into a lake. I don't intend to leave any slopes over 3:1.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

I understand the regs. but I have an active spoils pile. Onceit becomes inactive, the regulations will be complied with.

REPLACEMENT OF TOPSOIL

Soil will be replaced to a depth of 12". Topsoil will be replaced after each area becomes inactive, within one year. Soil material will be placed on areas that need revegitation.

REVEGETATION

The topsiol will be seeded during the first spring following replacement.

AVERAGE DEPTH OF REPLACED **SIL (INCHES) material:

12"

ESTIMATED ACRES:
ESTIMATED ACRES.
-0-
2
6
126

MO 780-1327 (12-91)

RE	CEIV	En
		トレ

Marshall Quarry

By my signature, I attest to the following:

FEB 1 4 2001

MISSOURI LAND

CAMATION COMMISSION

1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.

- 2. I or the company i am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
 - 3. I have obtained the approval of all landowner's for all proposed post-reciamation land uses.
 - 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the Isindowners, granting such access.

signature of applicant	TITLE	DATE	
Vonelo D. Mon	President	1/8/01	
NTS BOUK SUBSCRIBED AND SWORM	?F	COUNTY (OR CITY OF ST. LOUIS) BOSNE	
	AV OF JANGARY = 200/	JEE RUBBER STAMP IN CLEAR AREA BELOW	
Many Public Signature	Sam Strongs Sion 8xphage 3/25/2002	WARREN L. HARRIS Notary Public - State of Missouri Conmissioned in Boone County	
Works L.	GORPHINTED)	My Coromission Explicit. March 28, 19992	
APPROVED BY DIRECTOR'S REPRESENTATIVE	DATE APPROVED	PERMIT NUMBER .	
garry Hoffis	05/14/0	0688	
WO 780-1327 (13-91)	SITE NO.+/OF NAME_Morshall	PAGE 6 OF	



FEB 14 2007

MISSOURI LAND

P.O. BOX 176 JEFFERSON CITY, MO 65102

PERMIT TRANSFER (FOR TRANSF PLAN OR ACR	FERRING PERMITTED ACRES	S FROM ONE OPERATOR TO ANO	THER, WITH NO CHANGES IN MINE
NAME OF CURRENT PERMIT HOLDER Hall and Riley Quarries and Construction Company, Inc.		PERMIT NUMBER 0137	
site(s) Boonville Quarry			
ADDRESS			
1941 Boone Villa Drive, Suite	D	STATE	ZIP CODE
		MO	65233
Boonville CONTACT PERSON		I IVIO	PHONE NUMBER
Jerry Hall			660-882-2337
TO BE COMPLETED BY THE CURF List all reclamation bonds which are			
BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
Fireman's Fund Insurance Co.	5262728	7/1/87	\$42,500
			
TO BE COMPLETED BY PROPOSE	D SUCCESSOR		
NAME OF PROPOSED SUCCESSOR			
APAC-Missouri, Inc. ADDRESS P.O. Box 1117			
CITY		STATE	ZIP CODE
Columbia		MO	65205
CONTACT PERSON			TELEPHONE NUMBER
Christopher Schwedtmann			573-449-0886
List any other Land Reclamation Co controlled by successor.	ommission Permits current	y or previously neig by successo	or companies owned or partially
NAME OF COI	MPANY	PERMIT NUMBER	MINERAL
Limpus Quarries, Inc.		0570, 0040	Limestone
NOTE: The successor company my	set provide proof of bond	replacement and an efficient of	publication for the required public

notice.



To be completed for each separate area of o	disturbance associat	ted with mining operations.	MAR 2 7 2001	
SITE NAME OR NUMBER		PERMIT NUMBER		
Boonville Quarry		0688	MISSOURI LAND RECLAMATION COMMISSION	
COMPANY NAME				
APAC-Missouri, Inc.				
COUNTY	1/4 SECTION SE		SECTION	
Cooper			22 & 23	
TOWNSHIP	RANGE ACF		ACRES	
48N	17W		120	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)	<u> </u>			
MINERAL COMMODITY		ESTIMATED TONS/YEAR (FO	R GRAVEL SITES)	
Limestone			,	
NAME OF LANDOWNER (ATTACH LIST IF MORE THA	N ONE)			
M.F. Oswald				
ADDRESS				
Route 3				
CITY		STATE	ZIP CODE	
Boonville		МО	65233	
SOURCE OF RIGHT TO MINE (CHECK ONE):			DATE OF AGREEMENT	
MINERAL DEED		LEASE	June 1, 1957	
		VERBAL AGREEMENT		
OTHER (DESCRIBE):				
· · · · · · · · · · · · · · · · · · ·	V			
MINERAL RIGHTS OWNER (ATTACH LIST IF MORE TI	HAN ONE)			
APAC-Missouri, Inc.	,			
ADDRESS				
P.O. Box 1117		12		
CITY		STATE	ZIP CODE	
Columbia		МО	65205	
SOURCE OF RIGHT TO MINE (CHECK ONE):		LAI	DATE OF AGREEMENT June 1, 1957	
MINERAL DEED		☑ LEASE	June 1, 1937	
WARRANTY DEED		U VERBAL AGREEMENT		
OTHER (DESCRIBE):				
NOTE: Each site must be shown on a map	and be included in a	a public notice and an appr	oved mine plan.	

MO 780-1036 (12-91)



MISSOURI DEPARTMENT O :-- IATURAL RESOURCES LAND RECLAMATION COMMISSION

MINE PLAN BOONVILLE QUARRY



P.O. BOX 176 JEFFERSON CITY, MO 65102

A CANADA	MINE LEWIA	BOONVILLE	QUARRY				MISCOULIN	0	SON CITY, MO 63	102	
TYPE OF PLA	N (CHECK ONE):				þ	(ECLA)	MATION COM	AMISSION			_
SHORT T	ERM, FOR ONE PERMIT	T YEAR						MOSION			
LONG TE	RM, FOR PERIOD THRO	DUGH DATE: 31	JULY 20	37							
	N OF SITE PRIOR TO LA				TTING (BY APP	LICAN	OR PRIOR OF	ERATOR), INCL	UDING SOIL, VE	GETATION	_
	the mine area	is steenly	sloped.	open	nasture	5nc	partially	5 choods 1	Mbo goil		!
poor and	d rocky.	. 10 Decepty	вторса,	Open	pascure,	and	partiair	y wooded.	me som	. 1S	
-	2										
OPERATION	ON PLAN - 10 CSR	40-10.020(2)(D)	11.								-
A. TOPSO											_
	EPTH OF TOPSOIL, PRI	OR TO LAND RECL	AMATION CO	MMISSIO	N PERMITTING		IS TOPS	OIL TO BE SOLE	OR DISCARDE	D OFFSITE?	-
					10	_ INCH	vee	OR X NO			
						_ INCH	E3	OR LES NO			
	METHODS AND EQUIPM						_				
Alter t	the trees are	removed by o	dozer, t	he top	soil wil.	L be	removed v	vith truck	s, loader	s, and	
	The soil w		rbitea o	n the	perimete	cs of	the pit.	. 12" of	material	will be	۶
stripea	and stockpile	a.									

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

The soil will be stockpiled with trucks, loaders, and scrapers. After piling is completed, the pile will be struck and seeded to prevent erosion.

MO 780-1327 (12-91)

•	$ \bigcirc $	\mathbf{O}
•	BOONVILLE OUARRY	
B. SPOIL		
mined out portion of the pit inactive it will be finished	PLACEMENT AND DISPOSAL nd sold. The overburden that is and graded. This is an active of d graded and used as an industrict, cap rock, and other unconsoling	spoil pile. Once it becomes al site. See site map. Over-
C. ACID MATERIALS		
	OR HANDLING ACID MATERIALS (IF NONE IS ANTICIPA	ATED, WRITE "NONE" BELOW)
none is anticipated		·
D. PIT INFORMATION (GIVE ALL DIMI		
DESCRIBE LOCATION AND ORIENTATION OF PI	T, IF NOT CLEAR ON SITE MAPS	
See site map.		

public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)

Will any excavation start at or within fifty feet (50') of any property line?
(NOTE: If the answer is "yes", a safety barrier may be needed.)

Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any

Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?

YES

NO

 \Box

Q

BOONVILLE QUARRY

	2001112222 200						
RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.							
A. REVEGETATION (Attach add	itional sheets, if needed)						
REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME					
1	pasture	spring (March-May)					

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

During the first spring following topsoil replacement the seedmix will be broadcast and harrowed.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
alfalfa	15 lbs./acre 25 lbs./acre		
fescue Kentucky 21	25 ibs./acre		

REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
2	topsoil protection	

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Fourwheeler and broadcast spreader.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
alfalfa fescue Kentucky 21	15 lbs./acre 25 lbs./acre		

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

BOONVILLE OUARRY

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

All spoils will be sloped to prevent erossion, also where necessary the slopes will be made traversable for appropriate machinery. The rest of the pit will be made into a lake. I don't intend to leave any slopes over 3:1, except for a very steep area behind spoils pile. This area is shown on map.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

I understand the regs. but I have an active spoils pile. Once it becomes inactive, the regulations will be complied with.

REPLACEMENT OF TOPSOIL

Soil will be replaced to a depth of 12". Topsoil will be replaced after each area becomes inactive, within one year. Soil material will be placed on areas that need revegitation.

REVEGETATION

The topsoil will be seeded during the first spring following replacement.

AVERAGE DEPTH OF REPLACEDXIXIPSOIL (INCHES) material:

12"

D. USE OF LAND WHEN RECLAIMED	
Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	-0-
Agricultural (pasture, cropland, and horticultural)	2
Development (residential, industrial, and recreational)	2
Water impoundments (for wildlife, agricultural, or development)	116
AO 780-1227 (12-01)	DAGE 4.0

Boonville Quarry

By my signature, I attest to the following:

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company i am authorized to represent Intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
 - 3. I have obtained the approval of all landowner's for all proposed post-reciamation land uses.
 - 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the fandowners, granting such access.

RECEIVED

FEB 14 2001

MISSOURI LAND
PECLAMATION COMMISSION

SIGNATURE OF APPLICANT		TITLE	DATE
Vonale	O. Monto	President	1/8/01
NOTARY PLOLIC BUGOSSER STAL	TATE MISSOURI SUBSCRIBED AND SWORN BY OME WE T	ris	BONE
-	8 DAY OF JAN	WARY & ZOOY T	use rubber stamp in Clear area seld
(Mana Hand	MY COMMISSION 8XPHS3 3/25/202	Notary Public - State of Missouri Commissioned in Boone County
Į.	igitary public name it vifed of printed; Warren L- Harns	•	My Commission Explicat Merch 25, 2002
APPROVED BY (DIRECTOR'S REPRE	BENTAPIVE)	DATE APPROVED	PERMIT NUMBER .
Darm	Dentis	05/14/01	0688
HO 780-1337 (46-91)	7		PAGE 5



FEB 14 2007

MISSOURI LAND

P.O. BOX 176 JEFFERSON CITY, MO 65102

PERMIT TRANSFER PLAN OR ACR	EAGE)		THER, WITH NO CHANGES IN MIN
Hall and Riley Quarries and Co	nstruction Company, Inc		PERMIT NUMBER 0137
HTE(S)			
Hwy 240 Quarry		-	
1941 Boone Villa Drive, Suite l	n		
1941 Boone vina Diive, Suite i		STATE	ZIP CODE
		MO	65233
Boonville CONTACT PERSON		MO	PHONE NUMBER
Jerry Hall			660-882-2337
TO BE COMPLETED BY THE CURF	RENT PERMIT HOLDER		
ist all reclamation bonds which are	held on this permit		
BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
Fireman's Fund Insurance Co.	5262728	7/1/87	\$42,500
	manada e e e e e e e e e e e e e e e e e e		
			
· · · · · · · · · · · · · · · · · · ·			
TO BE COMPLETED BY PROPOSE	D SUCCESSOR	er ann e e	
NAME OF PROPOSED SUCCESSOR			
APAC-Missouri, Inc.			
P.O. Box 1117			
тү Columbia		STATE MO	ZIP CODE 65205
CONTACT PERSON		IVIO	TELEPHONE NUMBER
Christopher Schwedtmann			573-449-0886
List any other Land Reclamation Controlled by successor.	ommission Permits current	lly or previously held by success	
NAME OF COL	MPANY	PERMIT NUMBER	MINERAL
Limpus Consolidated, LLC.		0570, 0040	Limestone
NOTE: The successor company mu	ust provide proof of bond	replacement and an affidavit of	publication for the required publ

notice.





MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION SITE INFORMATION FORM

MAR 2 7 2001

			····	MISSOURI LAND
To be completed for each separate an	ea of disturbance associ	lated with mining operation	ons.	RECLAMATION COMMISSION
SITE NAME OR NUMBER		PERMIT NUMBER		
H 240 O		0688		
Hwy 240 Quarry COMPANY NAME		1 0088		
APAC-Missouri, Inc.				
COUNTY	1/4 SECTION		SECTION	
Saline	77 OZ D 11 ON		SECTION	2
TOWNSHIP	RANGE		ACRES	
51N	19W			20
RIVER OR STREAM NAME (FOR IN-STREAM A	CRES)		······································	
MINERAL COMMODITY		ESTIMATED TONS/YEAR	(FOR GRAVEL	SITES)
Limestone				•
NAME OF LANDOWNER (ATTACH LIST IF MOI	RE THAN ONE)			
Alicia Gotmer, Darlene Johnson, Dia	ane Bennett			
ADDRESS				
CITY		STATE		7:0 0005
5111		SIAIE		ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE):				DATE OF AGREEMENT
MINERAL DEED		EASE		May 5, 1997
WARRANTY DEED		VERBAL AGREEMENT	r	
OTHER (DESCRIBE):				
			· · · · · · · · · · · · · · · · · · ·	
AMMEDIA DIO ITO OMBIED INTERIORISTA				
MINERAL RIGHTS OWNER (ATTACH LIST IF MAPAC-Missouri, Inc.	IORE I HAN ONE)			
ADDRESS				
P.O. Box 1117				
CITY		STATE	***************************************	ZIP CODE
Columbia		МО		65205
SOURCE OF RIGHT TO MINE (CHECK ONE):				DATE OF AGREEMENT
MINERAL DEED		X LEASE		May 5, 1997
WARRANTY DEED		VERBAL AGREEMENT	-	
		VERDAL AGREEMEN!	1	
OTHER (DESCRIBE):				
NOTE: Each site must be shown on a	map and be included in	a public notice and an a	pproved min	e plan.
MO 780-1038 (12-91)				- p



To be completed for each separate are	ea of disturbance associa	ted with mining operatio	MAR 2 7 2001 —
SITE NAME OR NUMBER		PERMIT NUMBER	MISSOURI LAND RECLAMATION COMMISSIO
Hwy 240 Quarry		0688	ACCLAMATION COMMISSIO
COMPANY NAME			
APAC-Missouri, Inc.			
COUNTY	1/4 SECTION		SECTION
Saline			2
TOWNSHIP	RANGE		ACRES
51N	19W		5
RIVER OR STREAM NAME (FOR IN-STREAM AG	CRES)		
MINERAL COMMODITY		ESTIMATED TONS/YEAR	(FOR GRAVEL SITES)
Limestone			
MANUE OF LANDOWNER CATTOON OF THE	AS THAN ONE)		
NAME OF LANDOWNER (ATTACH LIST IF MOF Wayne Brown	E THAN UNE)		
-			
ADDRESS			
			<u> </u>
CITY		STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE):		67	DATE OF AGREEMENT
MINERAL DEED		☑ LEASE	May 5, 1997
WARRANTY DEED		L VERBAL AGREEMENT	
OTHER (DESCRIBE):			
	. =,		
MINERAL RIGHTS OWNER (ATTACH LIST IF M	ORE THAN ONE)		
APAC-Missouri, Inc.			
	······································		
ADDRESS			
P.O. Box 1117			
P.O. Box 1117		STATE	ZIP CODE
P.O. Box 1117		STATE MO	ZIP CODE 65205
P.O. Box 1117 CITY Columbia		МО	65205 DATE OF AGREEMENT
P.O. Box 1117 CITY Columbia			65205
CITY Columbia SOURCE OF RIGHT TO MINE (CHECK ONE):		МО	DATE OF AGREEMENT May 5, 1997

MO 780-1036 (12-91)

P.O. BOX 176 JEFFERSON CITY, MO 65102

MISSOURI LAND RECLAMATION COMMISSION

PAGE 1 OF 5

TYPE OF PLAN (CHEC	K ONE):		
SHORT TERM, FO	TOTAL COMMITTENI		Ouarries & Const. Co. Inc.
	PERIOD THROUGH DATE: 10 May 201		
DESCRIPTION OF SIT AND TOPOGRAPHY.	E PRIOR TO LAND RECLAMATION COMMISSIO	ON PERMITTING (BY APPLICANT OR F	PRIOR OPERATOR), INCLUDING SOIL, VEGETATION
	dirt removed. Aproximatly piles. The remaining land of the land is very poor qu	strial quality; they had two additional acres of its partially covered vality farm land. The ery difficult to use as	it. Four of the remaining ave had all the top soil and have been used for old spoil with brush (½ acre). The rest soil is very sandy. It will a farmland. The topography
OPERATION PLA	N - 10 CSR 40-10.020(2)(D)1.		
A. TOPSOIL			
AVERAGE DEPTH OF	TOPSOIL, PRIOR TO LAND RECLAMATION CO		IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
	Undisturbed Acres: 12" mm	in <u>imum soil mat</u> NCHES	YES OR NO
DESCRIBE METHODS	AND EQUIPMENT USED FOR TOPSOIL REMO	VAL	
	Dozers and scrapers, or tro	ucks and loaders.	
DESCRIBE METHOD	S AND EQUIPMENT USED FOR TOPSOIL STOR	AGE AND PROTECTION	
	The soil will be stockpiled is completed, the pile will		and scrapers. After piling to prevent erosion.
			DECEIVED
			RECEIVED
			→ MAY 1 % 199/

SITE NO.+/or NAME____site #3, 137 240 Quarry

MO 780-1327 (12-91)

	•		\sim
B. SPOI	L		
DESCRIBE	METHODS	S AND LOCATION OF SPOIL PLACEMENT AN	D DISPOSAL
	Overb in th	ourden will be removed and ne active spoils pile. Ove	sold. The overburden that is not sold will be placed rburden may consist of soil, dirt, and cap rock.
	see s	site map	
		•	
C ACIT	MATER	IAI S	
			CID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)
	none		
	110110	·	
D DIT	NEODIA	ATION (CIVE ALL DIMENCIONS IN	FFET)
		ATION (GIVE ALL DIMENSIONS IN IN AND ORIENTATION OF PIT, IF NOT CLEAR	
	500	site map	·
	see .	arce map	
			DECEIVED
			RECEIVE
		•	MAY 1 2 1997
			MISSOURI LAND
			RECLAMATION COMMISSION
YES	NO		
Ü		Will any excavation be at or within	fifty feet (50') of the right-of-way of any public road?
	X	public road? (NOTE: For uncons start near the right of way, and i	nconsolidated materials be left within fifty feet of the right-of-way of any blidated materials left in place, a slope of no more than forty degrees may in no case may the excavation be closer to the right of way than fifty feet one-half (1-1/2) times the depth of unconsolidated material, whichever is ed by the Commission.)
	X	Will any excavation start at or with (NOTE: If the answer is "yes", a sa	nin fifty feet (50') of any property line? Ifety barrier may be needed.)
MO 780-132	27 (12-91)	137	#3, 240 Quarry PAGE 2 OF 5

PERMIT NO. _____ SITE NO.+/or NAME

<i>-</i> 11		•
RECLAMATION PLAN - 10 CSR 4	i0-10.020(2)(D)2.	
A. REVEGETATION (Attach add	ditional sheets, if needed)	
REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
	Pasture	Spring (March-May)
DESCRIBE METHODS AND EQUIPMENT	TO BE USED FOR SEEDING OR PLANTING	-
During the first broadcast and ha	spring following topsoil repl rrowed. Reseeding will be don	lacement the seed mix will be ne as needed to control erosion.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB S	PECIES	STEMS/ACRE
alfalfa Fescue Kentucky 21	15 lbs./A 25 lbs./A			
REVEGETATION MIX #2	PURPOSE OR LAND USE	8	I. SEEDING OR PLAI	NTING TIME

Topsoil Protection
DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Fourwheeler and broadcast spreader.

RECEIVED

MISSOURI LAND
RECLAMATION COMMISSION

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
alfalfa Fescue Kentucky 21	15 lbs./A 25 lbs./A		

MO 780-1327 (12-91)

PAGE 3 OF 5

SITE NO.+/or NAME #3, 240 Quarry

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.



R	G	R	Δ	n	IN	ıĞ

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

MISSOURI LAND.

All spoils will be sloped to prevent erosion, and where necessary the slopes will be made traversable for appropriate machinery. The rest of the pit will be made into a lake. I don't intend to leave any slopes over 3:1, unless the original topography was so, except for very steep areas behind spoil piles.

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

I understand the regulations, but this will be an active spoil pile. Once the spoil pile becomes inactive, the grading, topsoil replacement, and revegitation will be done as specified in the regs.

REPLACEMENT OF TOPSOIL

Soil material will be placed on spoil piles with in one year after each area becomes inactive, soil will be replaced to a depth of 12". No soil will be placed in the area of water impoundment.

REVEGETATION

The topsoil will be seeded during the first spring following replacement.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

OK

D. USE OF LAND WHEN RECLAIMED Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	-0- ,
Agricultural (pasture, cropland, and horticultural)	-0-
Development (residential, industrial, and recreational)	5
Water impoundments (for wildlife, agricultural, or development)	20

MO 780-1327 (12-91)

137

PERMIT NO.

#3, 240 Quarry

PAGE 4 OF 5

Hwy 240 Quarry

By my signature, I attest to the following:

MISSOURI LAND 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.

- 2. I or the company I am authorized to represent Intend(s) to mine in accordance with this Mine Plan Form. and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Rectamation
 - 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.

Commission pertaining to my company's surface mining operations.

4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Rectamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the isndowners, granting such access.,

SIGNATURE OF APPLICANT	TITLE	DATE
Nonald M Month	President	1/8/01
HOPANY FLORING BANDSSER SEAL STATE MISSOURT SUBSCRIBED AND SWORN BY ORE	ME THIS	COUNTY (OA CITY OF ST. LOUIS)
	TANKARY + 2001	USE RUBBER STAMP IN CLEAR AREA SELOW
MUNIC SIGNATURE	SIZS/2002	WARREN L. HARMS Notary Public - State of Missouri
NOTARY PUBLIC NAME ITYPED OR PRINT WARREN L- HAR		Commissioned in Boone County
APPROVED BY DIRECTOR'S REPRESENTATIVE)	DATE APPROVED	PERMIT NUMBER .
Mary Dentis	05/14/0	
MO 780-1597 (12-91)	7	PAGE 6 OF 6

SITE NO. +/OF NAME_



AUG 2 3 2001



MISSOURI LAND RECLAMATION COMMISSION

ITE NAME OR NUMBER		PERMIT NUMBER	
Graham Quarry		688	
COMPANY NAME			
APAC-Missouri, Inc.			
COUNTY	1/4 SECTION		SECTION
Miller			5
TOWNSHIP	RANGE		ACRES
38N	14W		45
RIVER OR STREAM NAME (FOR IN-STR			10
MINERAL COMMODITY		ESTIMATED TONS/YEAR (F	OR GRAVEL SITES)
Limestone		- I STONE I STONE	an anning on Edj
NAME OF LANDOWNER (ATTACH LIST	IF MORE THAN ONE)		
Perry and Colleen Graham			
ADDRESS		The second section was to the second section with the second section s	
P.O. Box 350			
CITY		STATE	ZIP CODE
Kaiser		МО	65047
SOURCE OF RIGHT TO MINE (CHECK O	DNE):		DATE OF AGREEMENT
SOUNCE OF HIGHT TO MINE (CHECK C		LEASE	
MINERAL DEED		- CEAGE	
		VERBAL AGREEMENT	
MINERAL DEED WARRANTY DEED			
MINERAL DEED WARRANTY DEED			
MINERAL DEED WARRANTY DEED			
MINERAL DEED WARRANTY DEED OTHER (DESCRIBE):			
MINERAL DEED WARRANTY DEED OTHER (DESCRIBE): MINERAL RIGHTS OWNER (ATTACH LIST			
MINERAL DEED WARRANTY DEED OTHER (DESCRIBE): MINERAL RIGHTS OWNER (ATTACH LIST			
MINERAL DEED WARRANTY DEED OTHER (DESCRIBE): MINERAL RIGHTS OWNER (ATTACH LIST			
MINERAL DEED WARRANTY DEED OTHER (DESCRIBE): MINERAL RIGHTS OWNER (ATTACH LISSAME as above. ADDRESS		VERBAL AGREEMENT	
MINERAL DEED WARRANTY DEED OTHER (DESCRIBE): MINERAL RIGHTS OWNER (ATTACH LIST			ZIP CODE
MINERAL DEED WARRANTY DEED OTHER (DESCRIBE): MINERAL RIGHTS OWNER (ATTACH LIS Same as above. ADDRESS	ST IF MORE THAN ONE)	VERBAL AGREEMENT	
MINERAL DEED WARRANTY DEED OTHER (DESCRIBE): MINERAL RIGHTS OWNER (ATTACH LIST Same as above. ADDRESS CITY SOURCE OF RIGHT TO MINE (CHECK C	ST IF MORE THAN ONE)	STATE	ZIP CODE DATE OF AGREEMENT
MINERAL DEED WARRANTY DEED OTHER (DESCRIBE): MINERAL RIGHTS OWNER (ATTACH LIST Same as above. ADDRESS CITY SOURCE OF RIGHT TO MINE (CHECK C	ST IF MORE THAN ONE)	STATE	
MINERAL DEED WARRANTY DEED OTHER (DESCRIBE): MINERAL RIGHTS OWNER (ATTACH LIST Same as above. ADDRESS CITY SOURCE OF RIGHT TO MINE (CHECK C	ST IF MORE THAN ONE) ONE):	STATE	



AUG 2 3 2001



MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION MINE PLAN

MISSOURI LAND RECLAMATION COMMISSION P.O. BOX 176 JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):	
SHORT TERM, FOR ONE PERMIT YEAR	
LONG TERM, FOR PERIOD THROUGH DATE: February 10, 2020	
DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR AND TOPOGRAPHY.	PRIOR OPERATOR), INCLUDING SOIL, VEGETATION
This plan covers an area of approximately 45 acres. Most of the mine site lies in sloped and wooded with mainly oak and scrub brush. There is very little if any rocky clay hardpan and cherty soil.	
ADED A TION DI AN LA COR LA LA CONTACTOR	-
OPERATION PLAN - 10 CSR 40-10.020(2)(D)1. A. TOPSOIL	
AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING	IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
10-6 INCHES	YES OR 🖾 NO
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL	
Overburden is removed with dozers and/or scrapers and placed in fill areas as no perimeter buffer zone berms.	eeded for site development or used for
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION	
NA NA	

ALCEIVED
AUG 2 3 2001

RECLAMATION LAND

B. SPOI	1	COMMISS	
		S AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL	NOR
DESCRIBE	METHODS	s and location of Spoil Placement and disposal	Ì
		will be placed in fill areas as needed to accommodate site development and/or along the permit needed for perimeter buffer zone berms.	
			1
			1
			1
			1
			1
C. ACID			
1	. METHOD:	S AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)	•
None.			1
ł			
ı			
D. PIT I	NFORM	ATION (GIVE ALL DIMENSIONS IN FEET)	
		N AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS	
See att	ached d	etail map.	
300 4			
YES	NO		
TES	NO		
	Ø	Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?	
	(5)		
	[23]	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of a public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees m start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet.	ay
		or twenty-five feet plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever greater, unless a variance is granted by the Commission.)	
	$\overline{\mathbf{x}}$	Will any excavation start at or within fifty feet (50') of any property line?	

AUG 2 3 2001

PAGE 3 OF 5

·	•	RECLAMASOUR
RECLAMATION PLAN - 10 CSR	40-10.020(2)(D)2.	TON COAMD
A. REVEGETATION (Attach ad	ditional sheets, if needed)	SION,
REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
Fescue/Red Clover	Commercial Development	First optimal period following grading.
DESCRIBE METHODS AND EQUIPMENT	TO BE USED FOR SEEDING OR PLANTING	

This site is being developed for development purposes. Overburden at the site will be used to facilitate operation as well as possible buffer zone perimeter berms. All unconsolidated material left along highwall fringes will be graded, disced and seeded to prevent erosion.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	20		
Red Clover	5		:
Annual Rye (spring)	10		
Wheat (fall/winter)	bushel		
REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PL	ANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

MO 780-1327 (12-91)

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
			1

AUG 2 3 2001

B. GRADING	MISSOURI LAND
DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES	RECLAMATION COMMISSION
The floor of the quarry will be left open so it is suitable for development with a durable surface.	
4	
C. DESCRIBE THE GENERAL SEQUENCE AND THE SECOND OF SECULIORING ACTIVITIES GRADING	
GRADING	
Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).	
REPLACEMENT OF TOPSOIL	
Perlacement of the heat excitable metarial will be several as you 10 CCD 40 10 050 (10) (A)	
Replacement of the best available material will be completed as per 10 CSR 40-10.050 (10) (A).	
REVEGETATION	
Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).	
AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)	
12 inches of best available material.	
D. USE OF LAND WHEN RECLAIMED	
Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	
	· · · · · · · · · · · · · · · · · · ·
Agricultural (pasture, cropland, and horticultural)	ţ.
	1
Development (residential, industrial, and recreational)	45
Water impoundments (for wildlife, agricultural, or development)	
MO 780-1327 (12-91)	PAGE 4 OF 5

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RECLAMATION COMMISSION

By my signature, I attest to the following:

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT		TITLE	DATE
Kucha	LBoh	Vice President	8-23-01
NOTARY PUBLIC EMBOSSER SEAL	STATE Missouri SUBSCRIBED AND SWORN BEFORE ME, TH	HIS	COUNTY (OR CITY OF ST. LOUIS) BOONE
	Z3 ES DAY OF Au	Gust to 2001	USE RUBBER STAMP IN CLEAR AREA BELOW
	MOTARY PUBLIC SIGNATURE	MY COMMISSION EXPIRES 3/25/02	WARREN L. HARMS Notary Public - State of Missouri Communications in Boone County
	NOTARY PUBLIC NAME (TYPED OR PRINTED) NARRES L. HARMS		My Commission Expires March 25, 2002
APPROVED BY (DIRECTOR'S REPE	RESENTATIVE)	DATE APPROVED	PERMIT NUMBER
Tarms	Horitz	11/13/01	0683

MO 780-1327 (12-91)

PAGE 5 OF 5



AUG 2 3 2001



MISSOURI LAND RECLAMATION COMMISSION

To be completed for each separate are	a of disturbance associa		S.
SITE NAME OR NUMBER		PERMIT NUMBER	
Quarry #14		688	
COMPANY NAME			
APAC-Missouri, Inc.			
COUNTY	1/4 SECTION		SECTION
Miller			20
TOWNSHIP	RANGE		ACRES
40N	15W		7
RIVER OR STREAM NAME (FOR IN-STREAM AC			
MINERAL COMMODITY		ESTIMATED TONS/YEAR (F	OR GRAVEL SITES)
Limestone			
NAME OF LANDOWNER OF THE PROPERTY OF THE PROPE			
NAME OF LANDOWNER (ATTACH LIST IF MOR	E THAN ONE)		
Osage National Golf Course			
ADDRESS Occasional Decide Decide Decide 1210			
Osage Hills Road, P.O. Box 1210	_		
CITY		STATE	ZIP CODE
Lake Ozark		МО	65049
SOURCE OF RIGHT TO MINE (CHECK ONE):			DATE OF AGREEMENT
MINERAL DEED		LEASE	
WARRANTY DEED		L VERBAL AGREEMENT	
OTHER (DESCRIBE):			
MINERAL RIGHTS OWNER (ATTACH LIST IF MO	ORE THAN ONE)		
Same as shave			
Same as above. ADDRESS			
СІТУ		ATE	ZIP CODE
		1	
SOURCE OF RIGHT TO MINE (CHECK ONE):			DATE OF AGREEMENT
MINERAL DEED		LEASE	Unit of nontement
WARRANTY DEED		VERBAL AGREEMENT	
		LE VEHOAL AGREEMEN!	
OTHER (DESCRIBE):			
NOTE: Each site must be shown on a			are und mine plan





AUG 2 3 2001



MISSOURI LAND RECLAMATION COMMISSION P.O. BOX 176 JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):		
SHORT TERM, FOR ONE PERMIT YEAR		
LONG TERM, FOR PERIOD THROUGH DATE:	February 10, 2020	
DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION AND TOPOGRAPHY.	ON COMMISSION PERMITTING (BY APPLICANT OR I	PRIOR OPERATOR), INCLUDING SOIL, VEGETATION
	ely 7 acres. Most of the mine site lies in sh. There is very little if any topsoil. Ov	
		! :
OPERATION PLAN - 10 CSR 40-10.020(2)(1	D)4	
A. TOPSOIL	ונט.	
AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND REC	CLAMATION COMMISSION PERMITTING	IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
	Negligible INCHES	☐ YES OR ☑ NO
		LI TES OR ED NO
DESCRIBE METHODS AND EQUIPMENT USED FOR T	OPSOIL REMOVAL	
Overburden is removed with dozers and overburden will be sold for fill off site.	d scrapers and placed in fill areas as need	ed for site development. Excess
DESCRIBE METHODS AND EQUIPMENT USED FOR T	TOPSOIL STORAGE AND PROTECTION	
NA		

AUG 2 3 2001

MISSOURI LAND

		RECLAMATION COMMISSION
B. SPO	L	
DESCRIBE	METHODS	AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL
		will be placed in fill areas as needed to accommodate future site development and along the eastern y as a site berm for Osage National Golf Course.
P *******	00	
C. ACII	MATER	ALS
		AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)
None.		
None.		
D 017	NEODNA	TION OWE ALL DIMPNOIONS IN PERT
		TION (GIVE ALL DIMENSIONS IN FEET)
DESCRIB	E LOCATIO	N AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS
See at	tached de	etail map.
1		
 		
YES	NO	
		Will any excavation be at or within fifty feet (50') of the right-of-way of any public road? See MODOT permit.
	_	and the same of the same with the same to
		Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any
		public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may
		start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet
		or twenty-five feet plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is
		greater, unless a variance is granted by the Commission.)
_		- · · · · · · · · · · · · · · · · · · ·
		Will any excavation start at or within fifty feet (50') of any property line? A fence and/or berm has will be installed.

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AUG 2 3 2001

MISSOURI I AND

		RECLAMATION COMMIS				
RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.						
A. REVEGETATION (Attach a	dditional sheets, if needed)					
REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME				
Fescue/Red Clover	Commercial Development	First optimal period following grading.				
DESCRIBE METHODS AND EQUIPMEN	TTO BE USED FOR SEEDING OR PLANTING					
This site is being developed for	commercial or industrial purposes on the Osage I	National Golf Course. On the golf course				
property the fringes and backsle	ope areas will be prepared and seeded according to	to standard practices of the LRP.				
property, the tringes and odeksi	ope meas will be propuled and seeded according	o blandara praesione or the 224.				
Lime and fertilizer will be applie	ed according to recommendations made, based	on an analysis of soil texture and nutrients. Mu				
will be applied to all slopes exce	eding 5:1					

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	20		
Red Clover	5		
Annual Rye (spring)	10		
Wheat (fall/winter)	bushel		
REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PL	L ANTING TIME
REVEGETATION MIX #2	PURPOSE OR LAND USE		ANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACR

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

AUG 2 3 2001

PAGE 4 OF 5

B, GRADING	MISSOURI LAND RECLAMATION COMMISS
DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES	COMMISS
The floor of the quarry will be left open so it is suitable for development with a durable surface. It to the golf course property with a well-vegetated earthen berm and chain-link fence placed on the	There will be a highwall left next border for safety and security.
C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES	
GRADING	
Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).	
REPLACEMENT OF TOPSOIL Replacement of the best available material will be completed as per 10 CSR 40-10.050 (10) (A).	
REVEGETATION Province station will be completed as not 10 CSR 40 10 050 (10) (R)	
Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).	
AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES) 12 inches of best available material.	
D. USE OF LAND WHEN RECLAIMED	
Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	7
Water impoundments (for wildlife, agricultural, or development)	

MA 780-1307 (12-01)

AUG 2 3 2001

MISSOURI LAND RECLAMATION COMMISSION

By my signature, I attest to the following:

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT		TITLE		DATE
Kech	Bah	Vice President		8-23-01
	ATE Missouri	IIS		Mof st. Louis)
	7 - 14	GUST 10 2001		R STAMP IN CLEAR AREA BELOW
	Marie / Han	MY COMMISSION EXPIRES 3/25/07	l .	Variable & HARMS ry Public - State of Missouri missioned in Boone County
NC	UARREN L. HARMS			nission Expires March 25, 2002
APPROVED BY (DIRECTOR'S REPRESE	ENTATIVE)	DATE APPROVED	•	PERMIT NUMBER
Farry 1	lent's	11/13/	01	0688
MO 780-1327 (12-91)	. //-	,		PAGE 5 OF 5



6. 6. 7



MISSOURI DEPARTMENT OF WURAL RESOURCES LAND RECLAMATION COMMISSION

JUL 2 4 20

PERMIT TRANSFER

MISSOURI LAND P.O. BOX 176

REGUMATION COMMISSION/EFFERSON CITY, MO 65102

ERMIT TRANSFER (FOR THAN PLAN OR AN	UNEAGE)		PERMIT NUMBER	
Bentley Trucking, Inc.			0529	
ITE(S)				
Caldwell County Quarry #1	····	-		
504 Shamrock				
TY Shannock		STATE	ZIP CODE	
Clarence		MO	63437	
Clarence Ontact Person			PHONE NUMBER	
Lola Bentley			660-699-3635	
O BE COMPLETED BY THE CU ist all reclamation bonds which a				
BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT	
Community State Bank of Shelbina	CD #8288	12/18/93	\$11,500	
·				
O BE COMPLETED BY PROPO	SED SUCCESSOR			
AME OF PROPOSED SUCCESSOR				
APAC-Missouri, Inc.				
P.O. Box 1117				
TY	· · · · · · · · · · · · · · · · · · ·	STATE	ZIP CODE	
Columbia		MO	65202	
ONTACT PERSON Christophan Sohwadtmann			TELEPHONE NUMBER 573-449-0886	
Christopher Schwedtmann ist any other Land Reclamation ontrolled by successor.	Commission Permits current	tly or previously held by success		
NAME OF C	OMPANY	PERMIT NUMBER	MINERAL	
Limpus Quarries, Inc.		0570, 0040	Limestone	
Grand River Quarry, Inc.	***************************************	0564	Limestone	
City Wide Ashphalt, Inc.		0279	Limestone	
Lake Ozark Construction Inc	lustries, Inc.	0460	Limestone	
Prestage Quarry and Materia		0393	Limestone	

notice.

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MISSOURI LAND RECLAMATION COMMISSION

TRANSFER OF RECLAMATION RESPONSIBILITY

00.10120121.011 07 .	receiving the right to surfa	ce mine for	Limeston	e	, on the land	covered
by Missouri Surface	Mining Permit Number .	0529	•	•	f <u>15</u>	acres
located in Section _	1 & 12, 7 , Town	ship <u>57N.</u>	57N	, Range	27W.	26W ,
Caldwell	County, Missouri,		APAC-Missou	ri, Inc.		
a Missouri corpora	tion, Missouri partnershi	p, or individual			r reclaiming	the land
previously mined ur	nder the aforesaid permit t	ру	Bentley Truckir			
	he above identified land s 30 through 444.789, RSMo		ed in accordance v	vith the Misso	ouri Land Rec	clamation
and all rules, regula	ne current permit holder ations, orders, decisions a tion until such time as th	nd permits of th	e Missouri Land F	Reclamation C	Commission p	ertaining
-	ertify the information giv mation responsibility.	en above to be	correct, complete	and true, an	nd agree to t	he above
SNATURE	NAME			Т	ITLE	· · · · · · · · · · · · · · · · · · ·
Nonald I.	Month	Donald G. Mar	ntle		Divisio	on President
OPOSED SUCCESSOR COMPA APAC-Missouri, IncCent	tral Companies Division			C	7/16/C	<i>/</i>
GNATURE	NAME	······································	· · · · · · · · · · · · · · · · · · ·		TITLE	
tola @ Bent	ley	Lola Bentley			Preside	ent
JARENT OPERATOR COMPANY Bentley Trucking, Inc.				C	7/16	101
Appeared before me this	day of	Jucy	, # 2	∞/ DONAL	oG.MANTLE F	LOLA BENTLE
personally known, who e	xecuted the above as thei	r free acts and de	eeds.			
				COUNTY (OR CITY	OF ST. LOUIS)	
TARY PUBLIC EMBOSSER SEAL	STATE			COOKITY (OK CITY	01 01. 20010,	
TARY PUBLIC EMBOSSER SEAL	MI.SSOURT SUBSCRIBED AND SWORN			Boo	,	
TARY PUBLIC EMBOSSER SEAL	MISSOURI SUBSCRIBED AND SWORN /C DA	BEFORE ME, THIS	16 Z∞I	Boo	NE	EAR AREA BEL
DTARY PUBLIC EMBOSSER SEAL	SUBSCRIBED AND SWORN C DA NOTARY PUBLIC SIGNATURE NOTARY PUBLIC NAME (TYPED	YOF JULY OR PRINTED)	MY COMMISSION EXPIRES 3/25/2002	Boo USE RUBBER WAI Notary Pu Commission	STAMP IN CLI RREN L. HARMS blic-State of N oned in Boone	3 Missouri County
DTARY PUBLIC EMBOSSER SEAL PPROVED BY (D)RECTOR'S REF	SUBSCRIBED AND SWORN / C DA NOTARY PUBLIC SIGNATURE NOTARY PUBLIC NAME (TYPED WARREN L. H.	YOF JULY OR PRINTED)	MY COMMISSION EXPIRES	Book USE RUBBER WAI Notary Pu Commission My Commission	STAMP IN CLI RREN L. HARMS blic-State of M	3 dissouri County 25, 2002



MISSOURI DEPARTMENT OF TATURAL RESOURCES LAND RECLAMATION COMMISSION SITE INFORMATION FORM

ECEIVED

JUL 2 4 2001

SITE NAME OR NUMBER		PERMIT NUMBER	
Nettleton Quarry		0688	
COMPANY NAME		<u> </u>	
APAC-Missouri, Inc.			
COUNTY	1/4 SECTION		SECTION
Caldwell			1 & 12 6 & 7
TOWNSHIP 57N	RANGE 2	7W	ACRES
57N	2	6W	120 total
RIVER OR STREAM NAME (FOR IN-STREAM AC	CRES)	·	
MINERAL COMMODITY		ESTIMATED TONS/YEA	AR (FOR GRAVEL SITES)
Limestone			
NAME OF LANDOWNER (ATTACH LIST IF MOR	RE THAN ONE)		
J.B. Cornelius	·		
ADDRESS			
RR 1, Box 72			
CITY		STATE	ZIP CODE
Hamilton		МО	64644
SOURCE OF RIGHT TO MINE (CHECK ONE):			DATE OF AGREEMENT
MINERAL DEED		LEASE	3/15/93
WARRANTY DEED		VERBAL AGREEME	,
OTHER (DESCRIBE):		·	
And the second s	- 		
MINERAL RIGHTS OWNER (ATTACH LIST IF M	IORE THAN ONE)		
APAC-Missouri, Inc.			
ADDRESS			
P.O. Box 1117			
CITY		STATE	ZIP CODE
Columbia		МО	65205
SOURCE OF RIGHT TO MINE (CHECK ONE):			DATE OF AGREEMEN
MINERAL DEED		X LEASE	
WARRANTY DEED		VERBAL AGREEME	INT

MO 780-1036 (12-91)

JUL 2 4 2001



MO 780-1327 (12-91)

MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION MINE PLAN

MISSOURI LAND RECLAMATION COMMISSION P.O. BOX 176 JEFFERSON CITY, MO 65102

PAGE 1 OF 5

	42. · 4. · · · · · · · · · · · · · · · · ·
TYPE OF PLAN (CHECK ONE):	
SHORT TERM, FOR ONE PERMIT YEAR	
LONG TERM, FOR PERIOD THROUGH DATE: July 25, 2037	
DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR	PRIOR OPERATOR), INCLUDING SOIL, VEGETATION
AND TOPOGRAPHY.	
This Long Term Mine Plan area consists of 120 acres of previously mined ground	nd surrounded by gently rolling hills.
Surrounding areas have an agricultural land use. Appoximately half of the mine	
previous mine operators for over sixty years. Little to no topsoil remains on tho	
is approximately 6 to 12 inches in depth. The vegetation on undisturbed areas c	
and where managed, crops. A county road running north and south defines the	
the current crusher and stockpile area.	custom sorder of the innie area from
the current crasher and stockpric area.	
OPERATION PLAN - 10 CSH 40-10.020(2)(D)1.	
A. TOPSOIL	
AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING	HIS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
0-12 INCHES	
INCHES	YES OR NO
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL	
Remaining topsoil will be removed with dozers and/or scrapers and either be sto	ored in a stable location or used
promptly on reclaimed areas. A combination of topsoil and best available mater	rial will be used to establish enough
growth medium to accommodate vegetative growth on disturbed areas if needed	_
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION	
All stockpiles will be protected from erosion by seeding the piles with a fast gro	owing vegetative cover during the first
available growing season.	

PAGE 2 OF 5

B. SPO			
DESCRIB	METHOD	S AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL	JUL 2 4 2001
			MISSOURI LAND RECLAMATION COMMISSION
			TO MIXTION COMMISSION
		will be used as fill in mined out pit areas and highwalls will be baand road ways will be reclaimed first.	ackfilled when possible. Areas along
	MATER		
DESCRIB	METHOD	S AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPAT	ED, WRITE "NONE" BELOW)
Nama			
None.			
		ATION (GIVE ALL DIMENSIONS IN FEET)	
DESCRIBI	LOCATIO	N AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS	
See of	ached d	etail map.	
See all	acheu u	etan map.	
YES	NO		
\boxtimes		Will any excavation be at or within fifty feet (50') of the right-of-way	of any public road?
	X		
7	WI .	Will any highwall consisting of unconsolidated materials be left we public road? (NOTE: For unconsolidated materials left in place, a start near the right of way, and in no case may the excavation be or twenty-five feet plus one and one-half (1-1/2) times the depth greater, unless a variance is granted by the Commission.)	slope of no more than forty degrees may closer to the right of way than fifty feet
\boxtimes		Will any excavation start at or within fifty feet (50') of any property li (NOTE: If the answer is "yes", a safety barrier may be needed.)	ne?

MO 780-1327 (12-91)



RECLAMATION PLAN - 10 CSR 40-10	.020(2)(D)2.	MISSOURI LAND
A. REVEGETATION (Attach addition	al sheets, if needed)	**************************************
REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME
Fescue/Red Clover	Commercial Development	First optimal period following grading.

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Pit areas will be backfilled with spoil material where possible and graded to facilitate a development land use. Two final pit impoundments will be left at the northern and western extents of the mine plan area. Reclaimed areas that will be seeded will be disced, leveled, and covered with the best available material to obtain a good seedbed.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	20		
Red Clover	5		
Annual Rye (spring)	10		
Wheat (fall/winter)	bushel		
REVEGETATION MIX #2	PURPOSE OR LAND USE	8. SEEDING OR PLA	ANTING TIME

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
		1	

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

JUL 2 4 2001

B. GRADING	MISSOURI LAND RECLAMATION COMMISSION
DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES	WATER COMMISSION
Pit areas will be reclaimed to development and water land uses. Spoil material will be us where practicable and reclaim areas around final pit impoundments. Any areas to be see with a suitable root growth material composed of 12 inches of the best available material	eded with vegetative cover will be covered
C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIV	/ITIES
Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A)	
REPLACEMENT OF TOPSOIL	
Replacement of the best available material will be completed as per 10 CSR 40-10.050 (10) (A).
REVEGETATION	
Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).	
AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES) 12" at Best A	vailable Material
D. USE OF LAND WHEN RECLAIMED	
Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	110

Water impoundments (for wildlife, agricultural, or development)

10

	MISS	OUR	LAND	
-=Ct	AMATI	ON C	OMMI	SSION

By my signature, I attest to the following:

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT	Λ	TITE	LE		DATE
Kula L	Bal		Vice President		7/23/01
NOTARY PUBLIC EMBOSSER SEAL	STATE Missouri			COUNTY (OR CIT	•
	SUBSCRIBED AND SWORN BEFORE				W C
	Z3 CDAY OF	rmc	1005	USE RUBBEI	STAMP IN CLEAR AREA BELOW
	MOTARY PUBLIC SIGNATURE)	MY COMMISSION EXPIRES 3/25/2002	Rotary	WARREN L. HARMS Public-State of Missouri
	NOTARY PUBLIC NAME (TYPED OR PRINT			Commissioned in Boone County	
	WARREN L. HARN	15		My Commis	sion Expires March 25, 2002
APPROVED BY (DIRECTOR'S REP	RESENTATIVE)	DAT	TE APPROVED		PERMIT NUMBER
Jam	a Horskis		08/24/	0 i	0688
MO 780-1327 (12-91)	, . /	_	,		PAGE 5 OF 5



MISSOURI DEPARTMENT OF N 'URAL RESOURCES LAND RECLAMATION COMMISSION

PERMIT TRANSFER

ECEIVE

P.O. BOX 176 JEFFERSON CITY, MO 65102

MISSOURLIAND PERMIT TRANSFER (FOR TRANSFERRING PERMITTED ACRES FROME ONE OF TRANSFERRING PERMITTED ACRES FROME ON TRANSFERRING PERMITTED ACRES FROME ON TRANSFERRING PERMITTED ACRES FROME ON THE PERMITTED PLAN OR ACREAGE) NAME OF CURRENT PERMIT HOLDER PERMIT NUMBER SOUTHWEST LIME QUARRY 0439 SITE(S) C . . LINN CREEK ADDRESS P.O. BOX 3044 CITY STATE ZIP CODE LINN CREEK MISSOURI 65202 **CONTACT PERSON** PHONE NUMBER DAVID FOREMAN 417-865-1555 TO BE COMPLETED BY THE CURRENT PERMIT HOLDER List all reclamation bonds which are held on this permit **BONDING COMPANY BOND NUMBER BOND DATE AMOUNT** AMERICAN INSURANCE INSURANCE COMPANY 27307392 FEB. 23, 1996 57,000,00 TO BE COMPLETED BY PROPOSED SUCCESSOR NAME OF PROPOSED SUCCESSOR APAC MISSOURI, INC. ADDRESS 1591 A PRATHERSVILLE ROAD ZIP CODE COLUMBIA MISSOURI 65202 CONTACT PERSON TELEPHONE NUMBER JEFF ALEXANDER 573-449-0886 List any other Land Reclamation Commission Permits currently or previously held by successor or companies owned or partially controlled by successor. NAME OF COMPANY **PERMIT NUMBER MINERAL** 0570, 0040 LIMPUS QUARRIES, INC. **LIMES**TONE GRAND RIVER QUARRY, INC. 0564 LIMESTONE CITY WIDE ASPHALT, INC. 0279 LIMESTONE

NOTE: The successor company must provide proof of bond replacement and an affidavit of publication for the required public notice.



MISSOURI DEPARTMENT OF LURAL RESOURCES LAND RECLAMATION COMMISSION SITE INFORMATION FORM

SITE NAME OR NUMBER		PERMIT NUMBER	ns. RECLAMATION COMMISSIO
LINN CREEK SOUTH S. te		PERMIT NUMBER	
LINN CREEK South S. te		0439	
COMPANY NAME			
APAC MISSOURI, INC.			
COUNTY THE SOURTY	1/4 SECTION		SECTION
CAMDEN TOWNSHIP	RANGE		16
TOWNSHIP	HANGE		ACRES
38N	38N 16W		299
RIVER OR STREAM NAME (FOR IN-STREA	M ACRES)		
MINERAL COMMODITY		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)
LIMESTONE / DOLOMITE			7414.44
NAME OF LANDOWNER (ATTACH LIST IF	MORE THAN ONE)		
DAVID L. AND NANCY J. ADDRESS	HANCOCK	***********	
NO. 1 OAK RIDGE COMMUN	ITY		
CITY		STATE	ZIP CODE
SUNRISE BEACH		MISSOURI	65079
SOURCE OF RIGHT TO MINE (CHECK ON	E): ,	······································	DATE OF AGREEMENT
MINERAL DEED		X LEASE	1–1–96
WARRANTY DEED		VERBAL AGREEMENT	1 1 50
OTHER (DESCRIBE):			
MINERAL RIGHTS OWNER (ATTACH LIST	IF MORE THAN ONE)		
SAME AS OWNER			
ADDRESS			
		T	
CITY		STATE	ZIP CODE
CITY		STATE	ZIP CODE
		STATE	ZIP CODE DATE OF AGREEMENT
		STATE	
SOURCE OF RIGHT TO MINE (CHECK ON MINERAL DEED WARRANTY DEED	 		
SOURCE OF RIGHT TO MINE (CHECK ON MINERAL DEED WARRANTY DEED		☐ LEASE ☐ VERBAL AGREEMENT	
SOURCE OF RIGHT TO MINE (CHECK UN		☐ LEASE ☐ VERBAL AGREEMENT	





MINE PLAN	JEFFERSON CITY, MO 65102
TYPE OF PLAN (CHECK ONE):	MISSOURI LAND
SHORT TERM, FOR ONE PERMIT YEAR	RECLAMATION COMMISSION Linn Creek
LONG TERM, FOR PERIOD THROUGH DATE: 2010	
DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMIT	TING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION
AND TOPOGRAPHY. This plan cales 2 ag acres.	
Mojorting of site is steep.	A trial offer onterative.
trees. soil is poor an	& thin with rock ontersting.
OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.	
A. TOPSOIL	
AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION	PERMITTING IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
10 >	© 12" INCHES ☐ YES OR ☑ NO
	INCHES LI YES ON IAI NO
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL	
Push with dozer and	possibly stock pile with scrapers
	1.2.2.
DESCRIBE METHOUS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND F	ROTECTION
	_
sob Mis eslig offi Head	er or suraper. Place in
aceas about from . hom	nelized water; seed seasonaly.
	The same of the sa
	1

\bigcup_{λ}	R	E C	_		n
Linn	Creek	140	23	1996	

B. SPOIL

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Little to no spoil expected. What spoil there is will resulting

De stakpied and saled and used to level up resulting

From and slope possible highwalls. For reclaimation.

_					_			_	_
C.	Δ	CI	D	M	Δ	TF	RI	ΔL	S

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NA

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

Pit located in center of SE'ly of 5.16 and will propress southerly into hillside. Next will more west into hillside

YES	NO	
	\boxtimes	Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?
	M	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
	×	Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

DECEIVE FEB 2 3 1996

MISSOURI LAND

Linn Creek

SCRIBE METHODS AND EQUIPMENT TO B			
VEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR PLA	NTING TIME
fescue Cloder (rad)	30 7*		
SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
me and fertilizer will be applied acc Il be applied to all slopes exceeding		made, based on an analysis of soil te	kture and nutrients. Mul

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

В.	GR	AD	IN	G

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

RECIAMATION COMMISSION

DECEIVE

mine floor will be left flat and walls will be graded back to 3+1 slopes.
4:1

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

solver adjancing as pit does which will be solved by rock sales final grading tobedone one year after permit expiration or renewal of permit when which surface mining disturbance occured.

REPLACEMENT OF TOPSOIL

Replace topsoil as necessary on slopes within I year of formit expiration or mining stopage. sequential with grading.

REVEGETATION

Revegetate within first planting season of reparement of topsoil. No later than one year following permit expiration or renewall of permit under which surface mining disturbance occured.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)	
D. USE OF LAND WHEN RECLAIMED	ESTIMATED ACRES:
Estimate acreage of each land use below, after reclamation	ESTIMATES ACITES.
Wildlife (forest or other habitat with livestock excluded)	
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	200
Water impoundments (for wildlife, agricultural, or development)	

By my signature, I attest to the following:

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

RECEIVED

AN 2 3 1998

MISSOURI LAND
RECLAMATION COMMISSION

SIGNATURE OF APPLICANT			TITLE		DATE	
Farras Che	ton		PRESIDENT		J 8 6 9 9	
NOTARY PUBLIC EMBOSSER SEAL	STATE			COUNTY (OR CI	TY OF ST. LOUIS)	
	MISSOURI SUBSCRIBED AND SWOI	RN BEFORE ME, TH	S	Boon	rc .	
	-33m	DAY OF JANUAR	Y 19 98	USE RUBBE	R STAMP IN CLEAR AREA BELOV	٧
	NOTARY PUBLIC SIGNATUR	_	MY COMMISSION EXPIRES MACH 5.2001	TAMARA K PARKS NOTARY PUBLIC STATE OF MIS BOONE COUNTY		
1	NOTARY PUBLIC NAME (TYP	PED OR PRINTED) H. Parks		MYC	OMMISSION EXP MAR. 9,2001	
APPROVED BY (DIRECTOR'S REPR	ESENTATIVE)		DATE APPROVED		PERMIT NUMBER	
Tasken	Thili		3/19/98		688	



MISSOURI DEPARTMENT OF NATURAL RESOURCES

LAND RECLAMATION COMMISSION PERMIT TRANSFER

MISSOURI LAND

DECEIVE

P.O. BOX 176 JEFFERSON CITY, MO 65102

			PERMIT NUMBER
Lake Ozark Construction Indu	stries, Inc.		0460
TE(S) LOCI #8			
DORESS		·	
P.O. Box 888			
īΤΥ		STATE	ZIP CODE
Osage Beach		MO	65065
ONTACT PERSON			PHONE NUMBER
Mike Atkisson O BE COMPLETED BY THE CUR	RENT PERMIT HOLDER		573-348-1515
ist all reclamation bonds which ar			
BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
The American Insurance Co.	11127250204	10/29/97	\$ 57, 500
1			
O RE COMPLETED BY PROPOS	ED SUCCESSOR		
	ED SUCCESSOR		
AME OF PROPOSED SUCCESSOR	ED SUCCESSOR		
AME OF PROPOSED SUCCESSOR APAC-Missouri, Inc.	ED SUCCESSOR		
APAC-Missouri, Inc. DORESS 1591 A Prathersville Road	ED SUCCESSOR	STATE	ZIP CODE (5200)
APAC-Missouri, Inc. DORESS 1591 A Prathersville Road TY Columbia	ED SUCCESSOR	STATE MO	65202
APAC-Missouri, Inc. DORESS 1591 A Prathersville Road TY Columbia DONTACT PERSON	ED SUCCESSOR		65202 TELEPHONE NUMBER
AME OF PROPOSED SUCCESSOR APAC-Missouri, Inc. DORESS 1591 A Prathersville Road TY Columbia ONTACT PERSON Christopher Schwedtmann ist any other Land Reclamation (МО	65202 TELEPHONE NUMBER 573-449-0886
AME OF PROPOSED SUCCESSOR APAC-Missouri, Inc. DORESS 1591 A Prathersville Road TY Columbia ONTACT PERSON Christopher Schwedtmann ist any other Land Reclamation (Commission Permits currently	МО	65202 TELEPHONE NUMBER 573-449-0886
AME OF PROPOSED SUCCESSOR APAC-Missouri, Inc. DORESS 1591 A Prathersville Road TY Columbia ONTACT PERSON Christopher Schwedtmann list any other Land Reclamation (ontrolled by successor.	Commission Permits currently	MO or previously held by success	65202 TELEPHONE NUMBER 573-449-0886 for or companies owned or pa
AME OF PROPOSED SUCCESSOR APAC-Missouri, Inc. DORESS 1591 A Prathersville Road TY Columbia DONTACT PERSON Christopher Schwedtmann ist any other Land Reclamation (ontrolled by successor. NAME OF CO	Commission Permits currently	MO or previously held by success PERMIT NUMBER	65202 TELEPHONE NUMBER 573-449-0886 For or companies owned or pa
TOPRESS 1591 A Prathersville Road TY Columbia ONTACT PERSON Christopher Schwedtmann List any other Land Reclamation (controlled by successor. NAME OF COLUMBIA Limpus Quarries, Inc.	Commission Permits currently	MO or previously held by success PERMIT NUMBER 0570, 0040	65202 TELEPHONE NUMBER 573-449-0886 For or companies owned or pa
APAC-Missouri, Inc. DORESS 1591 A Prathersville Road TTY Columbia ONTACT PERSON Christopher Schwedtmann List any other Land Reclamation (ontrolled by successor. NAME OF CO Limpus Quarries, Inc. Grand River Quarry, Inc.	Commission Permits currently	MO or previously held by success PERMIT NUMBER 0570, 0040 0564	65202 TELEPHONE NUMBER 573-449-0886 For or companies owned or pa MINERAL Limestone Limestone

notice.



MISSOURI LAND RECLAMATION COMMISSION TRANSFER OF RECLAMATION RESPONSIBILITY

by Missouri Surface M		ine forLimeston	NERAL)	, on the land covered
by Missouri Surface M	lining Permit Number	460,	which consists of	35 acres
located in Section	, Township	38N	, Range	16 W
Camden	County, Missouri,	APAC-Misso (PROPO)	ouri, Inc. SED SUCCESSOR)	1
a Missouri corporation	on, Missouri partnership, or	individual, assumes all r	esponsibility for	reclaiming the land
previously mined unde	er the aforesaid permit by	Lake Ozark (Construction Indu	ustries, Inc.
	above identified land shall b through 444.789, RSMo (Sup	·	e with the Misso	ouri Land Reclamation
and all rules, regulation to the above operation Program.	current permit holder agree ons, orders, decisions and pe on until such time as the tran tify the information given at ation responsibility.	ermits of the Missouri Land nsfer application is approv	d Reclamation C ed by the Misso	ommission pertaining uri Land Reclamation
MATURE	NAME			ITLE
Tione 1				
POSED SUCCESSOR COMPANY		n A. Pasley		Division President
PAC-Missouri, IncCentra	1			1-6-99
			т	ITLE
NATURE //	NAME		•	
vature are Carrows	40.1	ve VanHooser		General Manager
RENT OPERATOR COMPANY	Dav Dav	ve VanHooser	D	General Manager ATE /-6-99
RENT OPERATOR COMPANY ake Ozark Construction Ind	Dav		D	General Manager
RENT OPERATOR COMPANY Ake Ozark Construction Industry ppeared before me this	Dav	ما, 19	D	General Manager ATE /-6-99
RENT OPERATOR COMPANY Ake Ozark Construction Industry ppeared before me this ersonally known, who execution is	dustries, Inc. day of JA. cuted the above as their free	ما, 19	99 JOHN	General Manager ATE 1-6-99 PASLEY ADAVE VAN HOO OF ST. LOUIS)
RENT OPERATOR COMPANY ake Ozark Construction Ind appeared before me this ersonally known, who executive public embosser seal.	dustries, Inc. day of JA. cuted the above as their free STATE MISSOURT SUBSCRIBED AND SWORN BEFORE	acts and deeds.	99 JOHN COUNTY (OR CITY BOOM	General Manager ATE /-6-99 Paster & Dave Van Ho
ARRENT OPERATOR COMPANY ake Ozark Construction Ind Appeared before me this Dersonally known, who execution and provide the construction in t	dustries, Inc. day of JA. cuted the above as their free STATE MISSOURI SUBSCRIBED AND SWORN BEFOR DAY OF NOTART PUBLIC SIGNATURE MANN MANN MANN DAY MANN MA	acts and deeds. RE ME, THIS JAN 19 99 MY COMMISSION EXPIRES, 3/25/62	99 JOHN COUNTY (OR CITY BOOM	General Manager ATE /-6-99 PASLEY ADAVE VANUE OF ST. LOUIS) E STAMP IN CLEAR AREA B
ARY PUBLIC EMBOSSER SEAL	dustries, Inc. day of JA. cuted the above as their free STATE MISSOURI SUBSCRIBED AND SWORN BEFOR DAY OF NOTARY PUBLIC SIGNATURE NOTARY PUBLIC NAME (TYPED OR PRIN	acts and deeds. RE ME, THIS JAN 19 99 MY COMMISSION EXPIRES, 3/25/62	99 JOHN COUNTY (OR CITY BOOM	General Manager ATE /-6-99 PASLEY & DAVE VAN BE OF ST. LOUIS) E STAMP IN CLEAR AREA B





To be completed for each separate are	ea of disturbance associ	iated with mining operatio	ns. RECLAMATION COMMISSION
SITE NAME OR NUMBER	-:- 11	PERMIT NUMBER	
Quarry#8 Linn Creek North	Site 10/11 6/23/99	0688	
COMPANY NAME			
APAC-Missouri, Inc.			
COUNTY	1/4 SECTION		SECTION
Camden			16
TOWNSHIP	RANGE		ACRES
38N	16W		63
RIVER OR STREAM NAME (FOR IN-STREAM A	CRES)		
MINERAL COMMODITY		ESTIMATED TONS/YEAR	(FOR GRAVEL SITES)
Limestone			•
NAME OF LANDOWNER (ATTACH LIST IF MOR	RE THAN ONE)		
APAC-Missouri, Inc.		w ·	
ADDRESS			
1591A Prathersville Road			
CITY		STATE	ZIP CODE
Columbia		MO	65202
SOURCE OF RIGHT TO MINE (CHECK ONE):			DATE OF AGREEMENT
MINERAL DEED		LEASE	
WARRANTY DEED		VERBAL AGREEMENT	
OTHER (DESCRIBE):			
MINERAL RIGHTS OWNER (ATTACH LIST IF M	ORE THAN ONE)		
Same as Landowner			
ADDRESS			
CITY		STATE	ZIP CODE
		J. T.	Z. GOBE
SOURCE OF RIGHT TO MINE (CHECK ONE):			DATE OF AGREEMENT
MINERAL DEED		LEASE	DATE OF AGREEMENT
WARRANTY DEED		VERBAL AGREEMENT	
OTHER (DESCRIBE).			

MO 780-1036 (12-91)

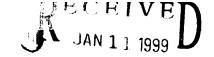


MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION MINE PLAN



MISSOURI LAND P.O. BOX 176
RECLAMATION COMMISSIGEFFERSON CITY, MO 65102

YPE OF PLAN (CHECK ONE):	
SHORT TERM, FOR ONE PERMIT YEAR LONG TERM, FOR PERIOD THROUGH DATE: February 10, 2020	
DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PAIND TOPOGRAPHY.	RIOR OPERATOR), INCLUDING SOIL, VEGETATION
This plan covers an area of approximately 63 acres. Most of the mine site lies in wooded with mainly oak and scrub brush. There is very little if any topsoil. Overocks in varying depths.	
DPERATION PLAN - 10 CSR 40-10.020(2)(D)1.	
A. TOPSOIL AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING	IS TOPSOIL TO BE SOLD OF DISCARDED OFFSITE?
Negligible INCHES	YES OR NO
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL	
Overburden is removed with dozers and scrapers and stored out of the way to be future commercial or industrial development. Enough growth medium will be regrowth on disturbed areas where needed. Stockpiles will be protected by seeding during the next available growing season.	etained to accommodate vegetative
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION	
Overburden will be stored and seeded until sold or used for site development.	



B. SPOIL		RECLAMATION COMME
		RECLAMATION COMMISSION AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL
Spoil m	aterial v	vill be removed, stored, and protected on permitted acres for site development or sold as fill material naterial will be placed to the north, east, and west sides of the pit area.
C. ACID	MATERI	ALS
		AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)
None.		!
1		
		TION (GIVE ALL DIMENSIONS IN FEET) AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS
DESCHIBE	LOCATIO	NAND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS
See atta	ached de	etail map.
YES	NO	
	r5ti	
⊔	Ž	Will any excavation be at or within fifty feet (50") of the right-of-way of any public road?
	(3)	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
□ I		Will any excavation start at or within fifty feet (50') of any property line? A barrier will be installed if needed. (NOTE: If the answer is "yes", a safety barrier may be needed.)
MO 780-1327	(12-91)	PAGE 2 OF S



	.020(2)(D)2.	MISCOURI LAND	
L REVEGETATION (Attach addition	al sheets, if needed)	RECLAMATION COMMISSION	
EVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR F	
Fescue/Red Clover	Commercial Develop	ment First optimal	period following grading.
ESCRIBE METHODS AND EQUIPMENT TO BE	USED FOR SEEDING OR PLANTII	NG .	
Pit areas will be left open to develop for leveled, and covered with the best available.	or commercial or industrial or ilable material to obtain a go	levelopment. The disturbed areas are od seedbed.	ound the pit will be disced,
ime and fertilizer will be applied according	5:1.		·
SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Fescue	20		
Red Clover	5		
Annual Rye (spring)	10		
Wheat (fall/winter)	bushel		
EVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR	PLANTING TIME
DESCRIBE METHODS AND EQUIPMENT TO BE	LISED FOR SEEDING OR DI ANTI	NG.	
ESCRIBE METHODS AND EQUIPMENT TO BE	OSED FOR SEEDING ON FLANT	NG .	
ime and fertilizer will be applied accivil be applied to all slopes exceeding	_	s made, based on an analysis of soil	texture and nutrients. Mul

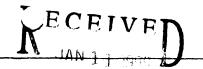
ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.



3 G G DING	AAICCOUDLA -
DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES	MISSOURLLAND RECLAMATION COMMISSION
Pit will be left open for commercial or industrial development with a flat durable surfaunconsolidated material above the highwalls will be graded to a slope traversable by fi	ace. Any remaining spoil material and/or
DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING AC	TIVITIES
Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) ((A) .
REPLACEMENT OF TOPSOIL	
Replacement of the best available material will be completed as per 10 CSR 40-10.050	0 (10) (A).
REVEGETATION	
Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).	
AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)	
D. USE OF LAND WHEN RECLAIMED	PATILLATER
Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	63

MO 780-1327 (12-91)

Water impoundments (for wildlife, agricultural, or development)



By my signature, I attest to the following:

MISSOURI LAND RECLAMATION COMMISSION

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT			TITL	.E		DATE	
Kichael L	Kak			Vice President		1/11	/99
NOTÁRY PUBLIC EMBOSSER SEAL	STATE Missouri				COUNTY (OR CIT		5)
	SUBSCRIBED AND S	WORN BEFORE	ME, THIS		Boo	NE	
	11	DAY OF	JAN	19 99	USE RUBBE	R STAMP IN	CLEAR AREA BELOW
	NOTARY PUBLIC SIGNA	51/	in	MY COMMISSION EXPIRES 3/25/02			Ding.
	NOTARY PUBLIC NAME	CTYPED OR PRINT			My Co	, wind it is	2002
APPROVED BY (DIRECTOR'S REPR	IEȘENTATIVE)		DAT	TE APPROVED		PERMIT NU	MBER
Lary 6	metis			12/26/9	39	0	668
MO 780-1327 (12-91)							PAGE S OF





NAME OF CURRENT PERMIT HOLDER			THER, WITH NO CHANGES IN N VSSION PERMIT NUMBER
SOUTHWEST LIME QUARRY			0439
SITE(S)			
BUSIEK			
P.O. BOX 6288	•		
CITY	·	STATE	ZIP CODE
SPRINGFIELD		MISSOURI	65801
CONTACT PERSON			PHONE NUMBER
DAVID FOREMAN			417–865–1555
TO BE COMPLETED BY THE C List all reclamation bonds which			
BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
AMERICAN INSURANCE	07007000	DDD 22 1006	57 000 00
INSURANCE COMPANY	27307392	FEB. 23, 1996	57,000.00
		}	
		* 7 15	
		_	
			•
			12/4 - 12/4 - 1
TO BE COMPLETED BY PROP	DSED SUCCESSOR		
	OSED SUCCESSOR		
NAME OF PROPOSED SUCCESSOR	OSED SUCCESSOR		
	OSED SUCCESSOR		
APAC MISSOURI, INC.			
NAME OF PROPOSED SUCCESSOR APAC MISSOURI, INC.		STATE	ZIP CODE
APAC MISSOURI, INC. ADDRESS 1591 A PRATHERSVILLE		STATE MISSOURI	
APAC MISSOURI, INC. ADDRESS 1591 A PRATHERSVILLE		\	ZIP CODE
APAC MISSOURI, INC. ADDRESS 1591 A PRATHERSVILLE CITY COLUMBIA CONTACT PERSON JEFF ALEXANDER	ROAD	MISSOURI	ZIP CODE 65202 TELEPHONE NUMBER 573-449-0886
APAC MISSOURI, INC. ADDRESS 1591 A PRATHERSVILLE CITY COLUMBIA CONTACT PERSON JEFF ALEXANDER	ROAD	\	ZIP CODE 65202 TELEPHONE NUMBER 573-449-0886
APAC MISSOURI, INC. ADDRESS 1591 A PRATHERSVILLE CITY COLUMBIA CONTACT PERSON JEFF ALEXANDER List any other Land Reclamatio controlled by successor.	ROAD	MISSOURI	ZIP CODE 65202 TELEPHONE NUMBER 573-449-0886
APAC MISSOURI, INC. ADDRESS 1591 A PRATHERSVILLE CITY COLUMBIA CONTACT PERSON JEFF ALEXANDER List any other Land Reclamatio controlled by successor.	ROAD on Commission Permits current COMPANY	MISSOURI tly or previously held by success	ZIP CODE 65202 TELEPHONE NUMBER 573-449-0886 or or companies owned or part
APAC MISSOURI, INC. ADDRESS 1591 A PRATHERSVILLE CITY COLUMBIA CONTACT PERSON JEFF ALEXANDER List any other Land Reclamatio controlled by successor. NAME OF	ROAD on Commission Permits current COMPANY	MISSOURI tly or previously held by success PERMIT NUMBER	ZIP CODE 65202 TELEPHONE NUMBER 573-449-0886 or or companies owned or part
APAC MISSOURI, INC. ADDRESS 1591 A PRATHERSVILLE CITY COLUMBIA CONTACT PERSON JEFF ALEXANDER List any other Land Reclamatio controlled by successor. NAME OF LIMPUS QUARRIES, INC. GRAND RIVER QUARRY,	ROAD On Commission Permits current COMPANY INC.	MISSOURI tly or previously held by success PERMIT NUMBER 0570, 0040 0564	ZIP CODE 65202 TELEPHONE NUMBER 573-449-0886 or or companies owned or part MINERAL LIMESTONE LIMESTONE
APAC MISSOURI, INC. ADDRESS 1591 A PRATHERSVILLE CITY COLUMBIA CONTACT PERSON JEFF ALEXANDER List any other Land Reclamatio controlled by successor. NAME OF LIMPUS QUARRIES, INC. GRAND RIVER QUARRY,	ROAD On Commission Permits current COMPANY INC.	MISSOURI tly or previously held by success PERMIT NUMBER 0570, 0040	ZIP CODE 65202 TELEPHONE NUMBER 573-449-0886 or or companies owned or part MINERAL LIMESTONE
APAC MISSOURI, INC. ADDRESS 1591 A PRATHERSVILLE CITY COLUMBIA CONTACT PERSON JEFF ALEXANDER List any other Land Reclamatio controlled by successor. NAME OF LIMPUS QUARRIES, INC. GRAND RIVER QUARRY,	ROAD On Commission Permits current COMPANY INC.	MISSOURI tly or previously held by success PERMIT NUMBER 0570, 0040 0564	ZIP CODE 65202 TELEPHONE NUMBER 573-449-0886 or or companies owned or part MINERAL LIMESTONE LIMESTONE

notice.





. MISSOURI LAND

SITE NAME OR NUMBER		PERMIT NUMBER	
BUSIEK		042 0- 0/ 00	11
COMPANY NAME		-0439 0688	/////////////////////////////////////
APAC MISSOURI, INC.	1/4 SECTION		SECTION
000111	174 32 317 314		32011014
CHRISTIAN			15
TOWNSHIP	RANGE		ACRES
25N	21W		27
RIVER OR STREAM NAME (FOR IN-STRE	AM ACRES)		
MINERAL COMMODITY		ESTIMATED TONS/YEAR	R (FOR GRAVEL SITES)
LIMESTONE / DOLOMITE			
NAME OF LANDOWNER (ATTACH LIST I	F MORE THAN ONE)		
APAC MISSOURI, INC.			
ADDRESS			
1591 A PRATHERSVILLE R	ΠΔΩ		
CITY	OAD	ISIAIE	ZIP CODE
COLUMBIA	A.F.	MISSOURI	65202
SOURCE OF RIGHT TO MINE (CHECK O	NE):	LEASE	DATE OF AGREEMENT
WARRANTY DEED		LI VERBAL AGREEMEN	IT .
OTHER (DESCRIBE):			
MINERAL RIGHTS OWNER (ATTACH LIS	ST IF MORE THAN ONE)		
	,		
APAC MISSOURI, INC.			
ADDRESS			
1591 A PRATHERSVILLE R	ROAD		
CITY		STATE	ZIP CODE
COLUMBIA		MISSOURI	65202
SOURCE OF RIGHT TO MINE (CHECK O	DNE):	1.112000111	DATE OF AGREEMENT
MINERAL DEED		LEASE	
X WARRANTY DEED			IT



P.O. BOX 176 JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):	· ·
SHORT TERM, FOR ONE PERMIT YEAR	SUSIEK Q.
☑ LONG TERM, FOR PERIOD THROUGH DATE: Dec. 31, 2009	12413167C 07.
DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICAND TOPOGRAPHY.	CANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION
Masters-Jackson Quarry - Busick Portable Plan	<u>nt #3</u>
This plan covers an area of approximately 27 acconsists of steeply sloped rocky outcrop cover. Topsoil is very thin to non-existent (see Chri. The area contains a mine (map #4) which has bettee past with little if any topsoil saved.	ed with brush and trees. stian Co. soil survey enclosed)
	MAR 0 1 1994
	MISSOURI LAND RECLAMATION COMMISSION
OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.	
A. TOPSOIL	
AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING	IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
See below and pictures $0-2$	NCHES YES OR X NO
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL	
The topsoil is very thin and once the brush an dozer or loader, topsoil will be pushed up 20 Most of existing pit topsoil is non-existent. been stripped (see pictures 1 & 2) with topsoi	feet ahead of pit excavation. Northeast side of pit has l left in pile.
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION	
Topsoil will be placed in stockpiles near the will be shaped and seeded with grass to protec	

_	•	-	_	
			റ	

DESCRIBE METHODS AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL

Spoil should be limited, but when encountered wil be used against the high walls for slopes.

RECEIVED

KUSIEK

MAR 01 1994

MISSOURI LAIND
RECLAMATION COMMISSION

_		\sim 1			A T	-		
U .	м	U	v	M	4 I	cr	up	۱LS

DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)

NONE

D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)

DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS

Pit is oriented in the center of property (see map #4). The mine will continue to the north-northwest into the hill once the east end is mined first to straighten out the wall.

YES	NO	
	KX	Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?
	KX	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
	KX	Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.		RUS	IEK
A. REVEGETATION (Attach	additional sheets, if needed)		
REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING TIME	
	Development	Fall	Spring
DESCRIBE METHODS AND EQUIPMENT	NT TO BE USED FOR SEEDING OR PLANTING	Aug 15-Oct 15	May-Jul

Seed will be broadcast and manipulated during first seeding season following topsoil placement.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Orchard grass	20		
Medium red clover	8		
		RECEI	VE
		MAR (1	1994
		MISSCUK	
REVEGETATION MIX #2	PURPOSE OR LAND USE	B. REELWAYAHOWIG	SOMM ISSION

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

BUSIEK

B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

Spoil will be graded to slopes along high wall and floor will be left clean and flat.



MISSOUKI LAND RECLAMATION COMMISSION

PAGE 4 OF 5

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

Grading will be done as the pit advances. Spoil will be place along the inner south wall as the mining advances northwestard. Final grading will be completed within one year of permit expiration.

REPLACEMENT OF TOPSOIL

Topsoil will be placed on slopes within one year of permit expiration. No topsoil will be hauled from site so we will place all soil available on site on spoil slopes.

REVEGETATION

MO 780-1327 (12-91)

All topsoil areas will be seeded during first planting period following topsoil replacement.

average Depth of REPLACED TOPSOIL (INCHES) 0-2" (Soil depth verified by Inspector; probed 3/7/9	4 by Candy Hamily.
D. USE OF LAND WHEN RECLAIMED Estimate acreage of each land use below, after reclamation AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES) D. USE OF LAND WHEN RECLAIMED See inspection report dated 3/10/94.	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	0
Agricultural (pasture, cropland, and horticultural)	0
Development (residential, industrial, and recreational)	14 27
Water impoundments (for wildlife, agricultural, or development)	0

By my signature, I attest to the following:

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. For the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

RECEIVED

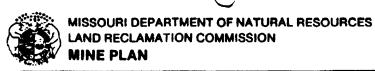
MISSOURI LAND
RECLAMATION COMMISSION

SIGNATURE OF APPLICANT Chyl	TIT W	PRESIDENT	-	Signal and All All All All All All All All All Al
NOTARY PUBLIC EMBOSSER SEAL STATE	E MISSOURI		COUNTY (OR CI	TY OF ST. LOUIS)
	SCRIBED AND SWORN BEFORE ME, THIS A3M DAY OF JANUARY	19 98		R STAMP IN CLEAR AREA BELOW
!	Tame K. Pale	MY COMMISSION EXPIRES MARCH 9, 2001	TAMAKA K PAKKS NOTARY PUBLIC STATE OF MISSOU BOONE COUNTY	
NOTAI	RY PUBLIC NAME (TYPED OR PRINTED) Tama K. Parks		MYC	OMMISSION EXP MAR. 9,2001
APPROVED BY (DIRECTOR'S REPRESENT	TATIVE) DA	TE APPROVED		PERMIT NUMBER
Marca Spa	W Comment of the comm	3/19/90	7	688
MO 780-1327 (12-91)				PAGE 5 OF

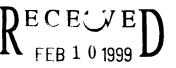




To be completed for each separate area	a of disturbance associat	ted with mining operation	MISSOURI LAND RECLAMATION COMMISSION
SITE NAME OR NUMBER	****	PERMIT NUMBER	
Lanagan		0688	
COMPANY NAME			
APAC-Missouri, Inc.			
COUNTY	1/4 SECTION		SECTION
McDonald			36
TOWNSHIP	RANGE		ACRES
22N	33W		21
RIVER OR STREAM NAME (FOR IN-STREAM AC			
	neo,		
MINERAL COMMODITY		TECTULATED TONGWEAD	200 00 1151 01550
Limestone		ESTIMATED TONS/YEAR (FOR GRAVEL SITES)
Linestone			
NAME OF LANDOWNER (ATTACH LIST IF MORE	E THAN ONE)		
Ollie M. Hill			
ADDRESS		And the second second second	
HCR 60, Box 19			
CITY		STATE	ZIP CODE
Lanagan		MO	64847
		1720	
SOURCE OF RIGHT TO MINE (CHECK ONE): MINERAL DEED		₩ LEASE	DATE OF AGREEMENT 10/23/95
WARRANTY DEED		_	10/25/95
_		LI VERBAL AGREEMENT	
OTHER (DESCRIBE):			
MINERAL RIGHTS OWNER (ATTACH LIST IF MO	ORE THAN ONE)		
APAC-Missouri, Inc.			
ADDRESS			
1591 A Prathersville Road			
CITY		STATE	ZIP CODE
0.1.1 :			
Columbia SOURCE OF RIGHT TO MINE (CHECK ONE):		МО	65205 DATE OF AGREEMENT
MINERAL DEED		X LEASE	DATE OF AGREEMENT
WARRANTY DEED			
OTHER (DESCRIBE):		L VERBAL AGREEMENT	



MO 780-1327 (12-91)

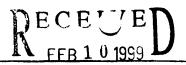


MISSOURI LAND

P.O. BOX 176 JEFFERSON CITY, MO 65102

PAGE 1 OF 5

TYPE OF PLAN (CHECK ONE): KECIAMATION	COMMISSION
SHORT TERM, FOR ONE PERMIT YEAR LONG TERM, FOR PERIOD THROUGH DATE: February 10, 2020	
DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR I AND TOPOGRAPHY.	PRIOR OPERATOR), INCLUDING SOIL, VEGETATION
This plan covers an area of approximately 21 acres directly adjacent to the south area (38 acres). Most of the mine site lies in an area which is steeply sloped and brush. There is very little good quality topsoil. Approximately 15 acres of the t disturbed by limestone mining operations. The previously mined acres are a mix areas. The entire area is being permitted because overburden from the current of most of the 21 acres.	I wooded with mainly oak and scrub otal 21 acres has been previously xture of pre- and post-law affected
OPERATION PLAN - 10 CSR 40-10.020(2)(D)1. A. TOPSOIL	
AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING	IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
3INCHES	U YES OR A NO
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL	
Whatever topsoil is present will be removed with dozers and scrapers on site for future of Enough topsoil will be stockpiled to accommodate vegetative growth on disturbed areas DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION	
Topsoil material will be placed in stockpiles located in stable locations with see pile from erosion.	d and mulch applied to stabilize the



PAGE 2 OF 5

B. SPOI	L		
		S AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL	MISSOURI LAND
			RECLAMATION COMMISSION
Spoil n	naterial	will be removed, stored, and protected on permitte	ed acres for site development or sold as fill material
1	e. The r	najority of spoil material will be placed in the old	pit areas located on the southern portion of the permit
area.			
C. ACID	MATER	MALS	
		S AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF	NONE IS ANTICIPATED, WRITE "NONE" BELOW)
		•	,
None.			
1			
İ			
D. PIT	NEORM	ATION (GIVE ALL DIMENSIONS IN FEET)	
		IN AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS	
Sagar	iaahad d	atail man	
See all	tacheu u	etail map.	
!			
L			
YES	NO	***	
123	40		
	Z	Will any excavation be at or within fifty feet (50') o	f the right-of-way of any public road?
_	_	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	• • • • • • • • • • • • • • • • • • • •
	X		naterials be left within fifty feet of the right-of-way of any
			Is left in place, a slope of no more than forty degrees may
			the excavation be closer to the right of way than fifty feet
		or twenty-rive teet plus one and one-nair (1-%) greater, unless a variance is granted by the Comm	times the depth of unconsolidated material, whichever is
		greater, critiss a variance is granted by the Comm	1551011.)
	\mathbf{x}	Will any excavation start at or within fifty feet (50')	of any property line?
		(NOTE: If the answer is "yes", a safety barrier may	
l l		• • • • • • • • • • • • • • • • • • • •	•

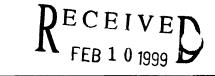
MO 780-1327 (12-91)



RECLAMATION PLAN - 10 CSR 40-10		VVICA JUBI LYPIN		
L. REVEGETATION (Attach additional sheets, if needed) MISSOURI LAND EVEGETATION MIX #1 PURPOSE OR LAND USE RECLAMATION COMMISSION OR PLANTING TIME				
Fescue/Red Clover		Commercial Development First optimal period following grading.		
DESCRIBE METHODS AND EQUIPMENT TO B				
Pit areas will be left open to develop material will be graded, disced, and c	for commercial or industrial overed with the best available	development. The disturbed areas aro e material to obtain a good seedbed.	und the pit and spoil	
Lime and fertilizer will be applied acc will be applied to all slopes exceeding SEEDED SPECIES		made, based on an analysis of soil t	exture and nutrients. Mulch	
Fescue	20			
Red Clover	5			
Annual Rye (spring)	10			
Wheat (fall/winter)	bushel			
REVEGETATION MIX #2	PURPOSE OR LAND USE	B. SEEDING OR P	LANTING TIME	
Lime and fertilizer will be applied ac will be applied to all slopes exceeding	cording to recommendations	s made, based on an analysis of soil	texture and nutrients. Mulch	
SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE	

MO 780-1327 (12-91)

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.



B. GRADING MISSOURITAND	
DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES RECLAMATION COMMISSION	
Spoil material from the current mining operation on the northern tract of the permit area will placed in this portion of the mine plan area. The spoil material will be graded to slope traversable by farm mach to the surrounding landscape.	
C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES	
GRADING	
Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).	
REPLACEMENT OF TOPSOIL	
Replacement of the best available material will be completed as per 10 CSR 40-10.050 (10) (A).	
REVEGETATION	
Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).	
AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)	
D. USE OF LAND WHEN RECLAIMED	
Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	21
Water impoundments (for wildlife, agricultural, or development)	

MO 780-1327 (12-01)



MISSOURI LAND RECLAMATION COMMISSION

By my signature, I attest to the following:

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company t am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT		IIICE		DAIL	
Richard L.B.	ah	Vice President		2/10/99	
NOTARY PUBLIC EMBOSSER SEAL	STATE Missouri	110	COUNTY (OR CIT	•	
	SUBSCRIBED AND SWORN BEFORE ME, TH			STAMP IN CLEAR AF	REA BELOW
	HOTARY PUBLIC SIGNATURE HOMEN T. Harn	MY COMMISSION EXPIRES 3/25/2002			
	NOTARY PUBLIC NAME (TYPED OR PRINTED) WARREN L. HARM	5]		کا` ب
APPROVED BY (DIRECTOR'S REPR	ESENTATIVE)	DATE APPROVED		PERMIT NUMBER	
Jarry A	kot s	03/29/	99	0663	
MO 280 1927 (12.81)					DAGE S OF





P.O. BOX 176 JEFFERSON CITY, MO 65102

PERMIT TRANSFER (FOR TRANSFER PLAN OR A	ISFERRING PERMITTED ACRE	S FROM ONE OPERATOR TO ANO RECLAMATION COMMISSI	THER, WITH NO CHANGES IN MINE
NAME OF CURRENT PERMIT HOLDER			PERMIT NUMBER
SOUTHWEST LIME QUARRY			0439
SITE(S)		c	
LANAGAN ADDRESS		- · · · · · · · · · · · · · · · · · · ·	
HCR 60			
CITY		STATE	ZIP CODE
LANAGAN		MISSOURI	64847
CONTACT PERSON DAVID FOREMAN			PHONE NUMBER 417-865-1555
TO BE COMPLETED BY THE CU List all reclamation bonds which a			
BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
AMERICAN INSURANCE			
INSURANCE COMPANY	27307392	FEB. 23, 1996	57,000,00
TO BE COMPLETED BY PROPO	SED SUCCESSOR		
NAME OF PROPOSED SUCCESSOR			
APAC MISSOURI, INC.			·
ADDRESS 1591 A PRATHERSVILLE 1	POAD		
CITY	NOAD	·TE	ZIP CODE
COLUMBIA		MISSOURI	65202
CONTACT PERSON			TELEPHONE NUMBER
JEFF ALEXANDER			573-449-0886
List any other Land Reclamation controlled by successor.	Commission Permits curren	tly or previously held by successo	or or companies owned or partially
NAME OF C	COMPANY	PERMIT NUMBER	MINERAL
LIMPUS QUARRIES, INC.		0570, 0040	LIMESTONE
GRAND RIVER QUARRY, I	NC .	0564	LIMESTONE
OLUMN MIARY SOUTHIN I		0304	DITTESTONE
CITY WIDE ASPHALT, INC	C.	0279	LIMESTONE
NOTE: The same			publication for the required public

notice.



MO 780-1036 (12-91)



-	area of disturbance assoc	ciated with mining operation	s. RECLAMATION COMMISSION
SITE NAME OR NUMBER		PERMIT NUMBER	
T ANIACANI		0.400	
LANAGAN COMPANY NAME		0439	
APAC MISSOURI, INC.	1/4 SECTION		CCCTION
JOUNT T	1/4 SECTION		SECTION
MCDONALD			36
TOWNSHIP	RANGE		ACRES
22N	33W		38
RIVER OR STREAM NAME (FOR IN-STREAM			1 30
MINERAL COMMODITY		ESTIMATED TONS/YEAR (F	FOR GRAVEL SITES)
		12	
LIMESTONE / DOLOMITE			· · · · · · · · · · · · · · · · · · ·
NAME OF LANDOWNER (ATTACH LIST IF M	ORE THAN ONE)		
ADAG MICCOURT THE			
APAC MISSOURI, INC.			
1591 A PRATHERSVILLE ROA	ת		
		_	
		SIAIE	ZIP CODE
	<u></u>		
COLUMBIA		MO	ZIP CODE 65202 DATE OF AGREEMENT
COLUMBIA			65202
COLUMBIA SOURCE OF RIGHT TO MINE (CHECK ONE)		МО	65202
COLUMBIA SOURCE OF RIGHT TO MINE (CHECK ONE) MINERAL DEED WARRANTY DEED	:	MO LEASE	65202
COLUMBIA SOURCE OF RIGHT TO MINE (CHECK ONE) MINERAL DEED	:	MO LEASE	65202
COLUMBIA SOURCE OF RIGHT TO MINE (CHECK ONE) MINERAL DEED WARRANTY DEED	:	MO LEASE	65202
COLUMBIA SOURCE OF RIGHT TO MINE (CHECK ONE) MINERAL DEED WARRANTY DEED	:	MO LEASE	65202
COLUMBIA SOURCE OF RIGHT TO MINE (CHECK ONE) MINERAL DEED WARRANTY DEED OTHER (DESCRIBE):	· ·	MO LEASE	65202
COLUMBIA SOURCE OF RIGHT TO MINE (CHECK ONE) MINERAL DEED WARRANTY DEED OTHER (DESCRIBE): MINERAL RIGHTS OWNER (ATTACH LIST IF	· ·	MO LEASE	65202
COLUMBIA SOURCE OF RIGHT TO MINE (CHECK ONE) MINERAL DEED WARRANTY DEED OTHER (DESCRIBE): MINERAL RIGHTS OWNER (ATTACH LIST IF	· ·	MO LEASE	65202
COLUMBIA SOURCE OF RIGHT TO MINE (CHECK ONE) MINERAL DEED WARRANTY DEED OTHER (DESCRIBE): MINERAL RIGHTS OWNER (ATTACH LIST IF	· ·	MO LEASE	65202
COLUMBIA SOURCE OF RIGHT TO MINE (CHECK ONE) MINERAL DEED WARRANTY DEED OTHER (DESCRIBE): MINERAL RIGHTS OWNER (ATTACH LIST IF APAC MISSOURI, INC.	· ·	MO LEASE VERBAL AGREEMENT	65202 DATE OF AGREEMENT
COLUMBIA SOURCE OF RIGHT TO MINE (CHECK ONE) MINERAL DEED WARRANTY DEED OTHER (DESCRIBE): MINERAL RIGHTS OWNER (ATTACH LIST IF APAC MISSOURI, INC.	· ·	MO LEASE	65202
COLUMBIA SOURCE OF RIGHT TO MINE (CHECK ONE) MINERAL DEED OTHER (DESCRIBE): MINERAL RIGHTS OWNER (ATTACH LIST IF APAC MISSOURI, INC.	· ·	MO LEASE VERBAL AGREEMENT	65202 DATE OF AGREEMENT
COLUMBIA SOURCE OF RIGHT TO MINE (CHECK ONE) MINERAL DEED WARRANTY DEED OTHER (DESCRIBE): MINERAL RIGHTS OWNER (ATTACH LIST IF APAC MISSOURI, INC. ADDRESS	MORE THAN ONE)	MO LEASE VERBAL AGREEMENT	65202 DATE OF AGREEMENT
COLUMBIA SOURCE OF RIGHT TO MINE (CHECK ONE) MINERAL DEED WARRANTY DEED OTHER (DESCRIBE): MINERAL RIGHTS OWNER (ATTACH LIST IF APAC MISSOURI, INC. ADDRESS	MORE THAN ONE)	MO LEASE VERBAL AGREEMENT	DATE OF AGREEMENT
COLUMBIA SOURCE OF RIGHT TO MINE (CHECK ONE) MINERAL DEED OTHER (DESCRIBE): MINERAL RIGHTS OWNER (ATTACH LIST IF APAC MISSOURI, INC. ADDRESS CITY SOURCE OF RIGHT TO MINE (CHECK ONE)	MORE THAN ONE)	MO LEASE VERBAL AGREEMENT STATE	DATE OF AGREEMENT



MISSOURI DEPARTMENT OF N URAL RESOURCES REPR 2 4 1990 MINE PLAN

MINE PLAN	MISSOURI LAND JEFFERSON CITY, MO 65102
TYPE OF PLAN (CHECK ONE):	RECIAMATION COMMISSION
SHORT TERM, FOR ONE PERMIT YEAR	Lanagan
LONG TERM, FOR PERIOD THROUGH DATE: 12 - 31-16	Who Jan 1
DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTI AND TOPOGRAPHY.	
This plan colers app	roximally 38 acres,
Thodot phillos viases	rthy, wooded, cherty chy
=0il. Abnttina	existing land presionsly
quarried.	
•	
1	
`-	
OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.	
A. TOPSOIL	
AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION P	PERMITTING IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
6-12	INCHES YES OR NO
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL	
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL	
Dozer and sumper	Duch into biles

DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION

Place in area away From channelized water, seed seconally

 $\mathcal{K}^{ECEIVE}_{AFR}$

B. SPOI	L		Dra Missour
DESCRIBE	METHODS	S AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL	RECLAMATION COM
			RECLAMATION COMMISSION
		spoil to be stockpiled out of	
		spoil to be stockpiled out of of mining then used to reclaim	Middle Laviagum
		Of the last went to testalm	Marcells
C. ACIE	MATER	NALS	
		S AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED,	WRITE "NONE" BELOW)
l		A G	
		<i>l</i> > <i>L</i> /	
I			
D DIT	NEODM	ATION (GIVE ALL DIMENSIONS IN FEET)	
		ON AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS	
		=ez Map.s	
YES	NO		
	\boxtimes	Will any excavation be at or within fifty feet (50') of the right-of-way of	any public road?
	\square	Will any highwall consisting of unconsolidated materials be left with	nin fifty feet of the right-of-way of any
		public road? (NOTE: For unconsolidated materials left in place, a slo	pe of no more than forty degrees may
		start near the right of way, and in no case may the excavation be cl	• • • • • • • • • • • • • • • • • • • •
		or twenty-five feet plus one and one-half (1-½) times the depth of greater, unless a variance is granted by the Commission.)	unconsolidated material, whichever is
יכזי			
		Will any excavation start at or within fifty feet (50') of any property line	?

(NOTE: If the answer is "yes", a safety barrier may be needed.)

A. REVEGETATION (Attach additional sheets, if needed)
REVEGETATION MIX #1 PURPOSE OR LAND

RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.

Lanagan

CW/

EGETATION MIX +1	PURPOSE OR LAND USE			ING TIME
	transpolacy.	Agricolhandle	pring	or fall
CRIBE METHODS AND EQUIPMENT TO E				
A.	and Broadcast Mini	M1144		
He	and production	ul Ward		
ne and fertilizer will be applied ac		made, based on an ana	lysis of soil text	ure and nutnents. Mi
I be applied to all slopes exceeding	ng 5:1.			
SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB	SPECIES	STEMS/ACRE
SEEDED SPECIES	POUNDS/ACRE	INCE ON STINOD	3r LOILS	
Fesche	30			
	_			
Red cloter	7		1	
	[-	
			1	
	- [
			İ	
	[1	
	1			
		<u> </u>		
EGETATION MIX 42	PURPOSE OR LAND USE		B. SEEDING OR PLAN	TING TIME
		made, based on an an	alysis of soil tex	ture and nutrients. M
		made, based on an an		ture and nutrients. M STEMS/ACRE
l be applied to all slopes exceeding	ng 5:1.			
Il be applied to all slopes exceeding	ng 5:1.			
l be applied to all slopes exceeding	ng 5:1.			
ll be applied to all slopes exceeding	ng 5:1.			
Il be applied to all slopes exceeding	ng 5:1.			
Il be applied to all slopes exceeding	ng 5:1.			
Il be applied to all slopes exceeding	ng 5:1.			
me and fertilizer will be applied a Il be applied to all slopes exceeding SEEDED SPECIES	ng 5:1.			
Il be applied to all slopes exceeding	ng 5:1.			
l be applied to all slopes exceeding	ng 5:1.			
be applied to all slopes exceeding	POUNDS/ACRE	TREE OR SHRUB		

₿.	GR	AD	IN	G
----	----	----	----	---

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

Mined out position to be flat and least with any principle of the position of

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

Addance as pit does which will be dictated by sales. Final grading to be done one year after permit expiration or renewal permit expiration under which surface mining disturbance occured

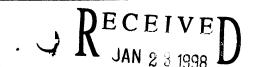
REPLACEMENT OF TOPSOIL

rear of permit expiration or renewal permit expiration under which surface mining disturbance occured

REVEGETATION

liczgot to tramanolgan to nocase parting scota

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)	
D. USE OF LAND WHEN RECLAIMED Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	
Agricultural (pasture, cropland, and horticultural)	2m 10 0
Development (residential, industrial, and recreational)	~28 ~38
Water impoundments (for wildlife, agricultural, or development)	



MISSOURI LAND RECLAMATION COMMISSION

By my signature, I attest to the following:

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT		TITLE	E DATE	
Jamas Cha	you	PRESIDENT		JA 20
MOTARY PUBLIC EMBOSSER SEAL	STATE MISSOURI SUBSCRIBED AND SWORN BEFORE ME	. THIS	COUNTY (OR C	TY OF ST. LOUIS)
	DAY OF JAN	UARY 1998	USE RUBBE	R STAMP IN CLEAR AREA BELOW
i	NOTARY PUBLIC SIGNATURE	MY COMMISSION EXPIRES	NOTA	TAMARA K PARKS RY PUBLIC STATE OF MISSOURI BOONE COUNTY
	NOTARY PUBLIC NAME (TYPED OR PRINTED)		MYC	COMMISSION EXP MAR. 9,2001
APPROVED BY (DIRECTOR'S REPR	RESENTATIVE)	DATE APPROVED		PERMIT NUMBER
Moures	Hux	3/19/98	7	688



MISSOURI DEPARTMENT OMATURAL RESOURCES

LAND RECLAMATION COMMISSION

PERMIT TRANSFER

MISSOURI LAND

DECEINEL

P.O. BOX 176 JEFFERSON CITY, MO 65102

PLAN OR ACE	FERRING PERMITTED ACRES F NEAGE)	ROM ONE OPERATOR TO ANO	THER, WITH NO CHANGES IN MIN
NAME OF CURRENT PERMIT HOLDER Lake Ozark Construction Indus	PERMIT NUMBER 0460		
SITE(S)			
LOCI #14	When the second	· · · · · · · · · · · · · · · · · · ·	
NODRESS D. O. Dani 999			
P.O. Box 888		STATE	ZIP CODE
Osage Beach		МО	65065
Osage Beach contact person			PHONE NUMBER
Mike Atkisson	DENT DEDMIT HOLDED	· · · · · · · · · · · · · · · · · · ·	573-348-1515
TO BE COMPLETED BY THE CURI List all reclamation bonds which are			
BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
The American Insurance Co.	11127250204	10/29/97	\$57, 500
	- And the second second second second second second second second second second second second second second se		
,			
-		1	
TO BE COMPLETED BY PROPOSE	ED SUCCESSOR		
NAME OF PROPOSED SUCCESSOR			
APAC-Missouri, Inc. ADDRESS 1591 A Prathersville Road			
CITY			ZIP CODE
Columbia		MO	65202
Christopher Schwedtmann			TELEPHONE NUMBER 573-449-0886
List any other Land Reclamation Controlled by successor.	ommission Permits currently	or previously held by success	
NAME OF CO	MPANY	PERMIT NUMBER	MINERAL
Limpus Quarries, Inc.		0570, 0040	Limestone
Grand River Quarry, Inc.		0564	Limestone
City Wide Ashphalt, Inc.		0279	Limestone
DYL Quarries, Inc.		0260	Limestone
Prestage Quarry and Materials	, Inc.	0393	Limestone

notice.



MISSOURI LAND TRANSFER OF RECLAMATION RESPONSIBILITY FOR AMATION COMMISSION

In consideration of rec	eiving the right to surface	mine for	Limestone (MINER	RAL)	, on the land covered
by Missouri Surface M	ining Permit Number	460	, wh	ich consists of	f35 acres
located in Section	20 & 29 , Townsh	nip4	ION	, Range	15W
Miller	County, Missouri,		APAC-Missour	ri, Inc.	
a Missouri corporatio	n, Missouri partnership,	or individual, as	•		r reclaiming the land
previously mined unde	r the aforesaid permit by		ake Ozark Co	enstruction Independent	ustries, Inc.
	above identified land sha through 444.789, RSMo (\$	•	n accordance	with the Misso	ouri Land Reclamation
and all rules, regulation to the above operation Program.	current permit holder agens, orders, decisions and until such time as the safety the information given tion responsibility.	d permits of the M transfer application	lissouri Land for is approved	Reclamation C d by the Misso	Commission pertaining ouri Land Reclamation
TURE	NAME		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Т	ITLE
$\mathcal{L}(\mathcal{L})$		John A. Pasley			Division President
SED SUCCESSOR COMPANY	<u> </u>	Olli A. I asiey	F	C	DIVISION FRESIDENT
' AC-Missouri, IncCentra	Companies Division				1-6-99
TURIE /	NAME			7	TITLE
	101	D			0134
INT OPERATOR COMPANY	229	Dave VanHooser		r	General Manager
e Ozark Construction Ind	ustries, Inc.				1-6-99
peared before me this	6 day of <u>J</u>	AN.	, 19 <u>9</u> °	9 JOHN	PASLEY & DAVE VANILORS
sonally known, who exec	cuted the above as their f	ree acts and deed:	В.		
PUBLIC EMBOSSER SEAL	STATE MISSAULT	-		COUNTY (OR CITY	
	SUBSCRIBED AND SWORN BE	_ /	1999		
<u> </u>	YOTARY PUBLIC SIGNATURE		COMMISSION	OSE HORREH	STAMP IN CLEAR AREA B
	MANU TYPED OR	Ham	3/25/02	Con My Committee	
	WARREN L.				
VED BY (DIRECTOR'S REPRE	SENTATIVE)	TITLE		C	DATE APPROVED
La Hand	£ .	1 LRS	: ///		02/26/99





To be completed for each separate area of d	isturbance associated	with mining operations		NSSOURI LAD ()
SITE NAME OR NUMBER		PERMIT NUMBER		
Quarry #14		0688		
COMPANY NAME				
APAC-Missouri, Inc.				
COUNTY	1/4 SECTION		SECTION	
Miller			29	
TOWNSHIP	RANGE		ACRES	
40N	15 W		12	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)	<u> </u>			
MINERAL COMMODITY		ESTIMATED TONS/YEAR (FO	OR GRAVEL SIT	(ES)
Limestone				
NAME OF LANDOWNER (ATTACH LIST IF MORE THAN	N ONE)			
APAC-Missouri, Inc.				
ADDRESS				
1591A Prathersville Road				
CITY		STATE	Z	IP CODE
Columbia		МО		65202
SOURCE OF RIGHT TO MINE (CHECK ONE):			D	ATE OF AGREEMENT
MINERAL DEED		LEASE		
WARRANTY DEED		VERBAL AGREEMENT		
OTHER (DESCRIBE):		•	· · · · · · · · · · · · · · · · · · ·	
		~		
MINERAL RIGHTS OWNER (ATTACH LIST IF MORE TH	HAN ONE)			
Same as Landowner				
ADDRESS				
CITY		STATE	Z	IP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE):			0	DATE OF AGREEMENT
MINERAL DEED	LEASE			
WARRANTY DEED	VERBAL AGREEMENT		<u> </u>	
OTHER (DESCRIBE):				
NOTE: Each site must be shown on a map a	and be included in a p	public notice and an app	roved mine (plan.





To be completed for each separate area of	disturbance associated wi	th mining operations	ECLAMATION COMMISSION	
SITE NAME OR NUMBER		PERMIT NUMBER		
Quarry #14		688		
COMPANY NAME				
APAC-Missouri, Inc.				
COUNTY	1/4 SECTION SECTION		SECTION	
Miller			20,29	
TOWNSHIP	RANGE		ACRES	
40N	15W		15	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)				
MINERAL COMMODITY	EST	TIMATED TONS/YEAR (FO	OR GRAVEL SITES)	
Limestone				
	······································			
NAME OF LANDOWNER (ATTACH LIST IF MORE TH	AN ONE)			
	, 5.112)			
Osage National Golf Course				
Osage Hills Road, P.O. Box 1210				
CITY	let.	ATE	ZIP CODE	
Lake Ozark		MO	65049	
SOURCE OF RIGHT TO MINE (CHECK ONE):		1410	DATE OF AGREEMENT	
MINERAL DEED	[X]	LEASE	DATE OF AGREEMENT	
WARRANTY DEED	_	VERBAL AGREEMENT		
OTHER (DESCRIBE):		VEHICLE AGRICUMENT		
			· · ·	
MINERAL RIGHTS OWNER (ATTACH LIST IF MORE	I HAN UNE)			
Same as above.		-		
ADDRESS				
	Maria and the second se			
CITY	ST	ATE	ZIP CODE	
SOURCE OF BLOUT TO WAYE 40 YEAR OVER				
SOURCE OF RIGHT TO MINE (CHECK ONE): MINERAL DEED	□		DATE OF AGREEMENT	
WARRANTY DEED	☐ LEASE ☐ VERBAL AGREEMENT			
OTHER (DESCRIBE):		VERDAL AUREEMENT		
OTHER (DESCRIBE).				
NOTE: Each site must be shown on a map	and be included in a publ	ic notice and an app	roved mine plan.	
MO 780-1036 (12-91)				





MISSOURI LAND
RECEMMATION COMMISSION

To be completed for each separate area of	disturbance associated with mining	operations.
SITE NAME OR NUMBER	PERMIT NUMB	EA
Quarry #14		688
COMPANY NAME		
APAC-Missouri, Inc.		
COUNTY	1/4 SECTION	SECTION
Miller		20,29
TOWNSHIP	RANGE	ACRES
40N	15W	8
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)		
MINERAL COMMODITY	ESTIMATED TO	DNS/YEAR (FOR GRAVEL SITES)
Limestone		
MAME OF LANDOWNER ATTACH LIST IT	N. Aug	
NAME OF LANDOWNER (ATTACH LIST IF MORE THA	IN UNE)	
Missouri Department of Transportation		
ADDRESS		
1511 Missouri Boulevard Box 718		
CITY	STATE	ZIP CODE
Jefferson City	МО	65102
SOURCE OF RIGHT TO MINE (CHECK ONE):		DATE OF AGREEMENT
MINERAL DEED	LEASE	
WARRANTY DEED	VERBAL AC	GREEMENT
OTHER (DESCRIBE): Permit #5-96-0128	9	
MINERAL RIGHTS OWNER (ATTACH LIST IF MORE T	HAN ONE)	,
Same as above.		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE):		DATE OF AGREEMENT
MINERAL DEED	LEASE	
WARRANTY DEED	VERBAL AG	GREEMENT
OTHER (DESCRIBE):		
NOTE: Fach site must be shown on a map	and be included in a public notice a	and an approved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION

MINE PLAN

MISSOURI LAND

P.O. BOX 176 JEFFERSON CITY, MO 65102

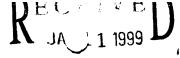
PAGE 1 OF 5

- Landin COM	MASSICINA
TYPE OF PLAN (CHECK ONE):	M. M. M. M. M. M. M. M. M. M. M. M. M. M
SHORT TERM, FOR ONE PERMIT YEAR LONG TERM, FOR PERIOD THROUGH DATE: February 10, 2020	
DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR F	ORIGINATORY INCLINING SOIL VEGETATION
AND TOPOGRAPHY.	THION OPERATORY, INCCODING SOIL, VEGETATION
This plan covers an area of approximately 35 acres. Most of the mine site lies in	
wooded with mainly oak and scrub brush. There is very little if any topsoil. Ov	erburden consists mainly of rocky clay
hardpan.	
OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.	
A. TOPSOIL	
AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING	IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
Negligible INCHES	YES OR NO
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL	
overburden will be sold for fill off site.	
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION	-
NA	



PAGE 2 OF 5

B. SPOI			
DESCRIBE	METHODS	AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL	MISSOURITARE REGIAMATION COMMISSION
		will be placed in fill areas as needed to accommodate along Hwy 54 west of the active pit for future highway	future site development. Most fill will be placed
DESCRIBE	METHODS	AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE	IS ANTICIPATED, WRITE "NONE" BELOW)
None.			
			i
D. PIT I	NFORMA	TION (GIVE ALL DIMENSIONS IN FEET)	
DESCRIBE	LOCATION	N AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS	
See att	ached de	etail map.	
YES	NO		See MODOT nermit
<u> </u>		Will any excavation be at or within fifty feet (50') of the	right-of-way of any public road?
	[23]	Will any highwall consisting of unconsolidated materials left public road? (NOTE: For unconsolidated materials left start near the right of way, and in no case may the error twenty-five feet plus one and one-half (1-1/2) times greater, unless a variance is granted by the Commission	t in place, a slope of no more than forty degrees may excavation be closer to the right of way than fifty feet is the depth of unconsolidated material, whichever is
Ŋ		Will any excavation start at or within fifty feet (50') of ar (NOTE: If the answer is "yes", a safety barrier may be n	• • •
MO 780-1327	(12-91)		PAGE 2 OF



			DURLLAND	
RECLAMATION PLAN - 10 CSR 40-10.020(2)(D)2.				
A. REVEGETATION (Attach addition		,		
REVEGETATION MIX #1	PURPOSE OR LAND USE	1	B. SEEDING OR PLANTING TIME	
Fescue/Red Clover	Commercial Develop	ment	First optimal period following grading.	
DESCRIBE METHODS AND EQUIPMENT TO B	SE USED FOR SEEDING OR PLANTI	NG		
This site is being developed for commented Missouri Department of Transport course property, the fringes and back	rtation will be reclaimed acco slope areas will be prepared a	rding to their plans for fund seeded according to s	iture widening o	of Hwy 54. On the golf es of the LRP.
Lime and fertilizer will be applied ac will be applied to all slopes exceeding		s made, based on an ana	llysis of soil tex	ture and nutrients. Mulch
SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB	SPECIES	STEMS/ACRE
Fescue	20			
Red Clover	5			
Annual Rye (spring)	10			
Wheat (fall/winter)	bushel			
REVEGETATION MIX #2 DESCRIBE METHODS AND EQUIPMENT TO	PURPOSE OR LAND USE BE USED FOR SEEDING OR PLANT	ING	B. SEEDING OR PLAI	NTING TIME

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACR

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.



	, 1 🗢 1833 🗕	
B. GRADING	MISSOUR! [AND	
DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES	RECLAMATION COMMISSIO	Y
The floor of the quarry will be left open so it is suitable for develop to the golf course property with a well-vegetated earthen berm and Any areas disturbed to accommodate shaping of grades and slopes traversable by farm machinery unless the original slope was steeper 54 to accommodate future widening of Hwy 54. This area will mee MODOT.	chain-link fence placed on the bord to accommodate the finished site pl r. Most fill material will be placed	er for safety and security. an will be graded to a slope I in the corridor along Hwy
C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE	FOLLOW S	
GRADING	ID 40 10 050 (10) (4)	
Grading of unconsolidated material will be completed as per 10 CS	K 40-10.030 (10) (A).	
REPLACEMENT OF TOPSOIL		
Replacement of the best available material will be completed as per	r 10 CSR 40-10.050 (10) (A).	
REVEGETATION		
Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).		
AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)		
D. USE OF LAND WHEN RECLAIMED		ECTIMATED ACDES
Estimate acreage of each land use below, after reclamation		ESTIMATED ACRES:

Estimate acreage of each land use below, after reclamation

Wildlife (forest or other habitat with livestock excluded)

Agricultural (pasture, cropland, and horticultural)

Development (residential, industrial, and recreational)

Water impoundments (for wildlife, agricultural, or development)



MISSOURI LAND RECLAMATION COMMISSION

By my signature, I attest to the following:

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT		TITLE		DATE	
Ruchard L	Bal	Vice President		1/11/99	
NOTARY PUBLIC EMBOSSER SEAL	STATE Missouri		COUNTY (OR CI	TY OF ST. LOUIS)	
	SUBSCRIBED AND SWORN BEFORE ME, T	HIS	}	BOONE	
	// DAY OF ~	JAN 19 99	USE RUBBE	R STAMP IN CLEAR AREA BELO	N
	NOTARY PUBLIC SIGNATURE	MY COMMISSION EXPIRES	No.L.	UKRMS THE EXPLOSION AND THE STATE OF COUNTY	
	NOTARY PUBLIC NAME (TYPED OR PRINTED)	ı5		nission Exam U. M. ruh. 25, 2002	
APPROVED BY (DIRECTOR'S REF	PRESENTATIVE)	DATE APPROVED		PERMIT NUMBER	
Harns &	Yerox-is	02/26/9	79	0668	
MO 780-1327 (12-91)	/-			PAGE S O	F 4





NAME OF CURRENT PERMIT HOLDER Lake Ozark Construction Indus	stries, Inc.		PERMIT NUMBER 0460
SITE(S)			
LOCI #12		_	
ADDRESS			
P.O. Box 888		STATE	ZIP CODE
Osage Beach contact person		MO	65065 PHONE NUMBER
			573-348-1515
Mike Atkisson TO BE COMPLETED BY THE CUR	RENT PERMIT HOLDER		373-348-1313
List all reclamation bonds which are			
BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
The American Insurance Co.	11127250204	10/29/97	\$57, 500
TO BE COMPLETED BY PROPOSI	ED SUCCESSOR		
NAME OF PROPOSED SUCCESSOR			
APAC-Missouri, Inc.			
1591 A Prathersville Road			
CITY		STATE	ZIP CODE
Columbia		MO	65202
CONTACT PERSON			TELEPHONE NUMBER
Christopher Schwedtmann			573-449-0886
List any other Land Reclamation C controlled by successor.	commission Permits curren	itly or previously held by successor	or or companies owned or partially
NAME OF CO	MPANY	PERMIT NUMBER	MINERAL
Limpus Quarries, Inc.		0570, 0040	Limestone
Grand River Quarry, Inc.		0564	Limestone
City Wide Ashphalt, Inc.		0279	Limestone
DYL Quarries, Inc.		0260	Limestone
Prestage Quarry and Materials	s, Inc.	0393	Limestone
NOTE: The successor company m	nust provide proof of bond	replacement and an affidavit of	publication for the required public

notice.



MISSOURI LAND
RECLAMATION COMMISSION

TRANSFER OF RECLAMATION RESPONSIBILITY

	right to surface mine to		MINERAL)	, , on the land	
by Missouri Surface Mining Perm	it Number	,	•	f	_ acres
located in Section 25 & 26	Township	42N	, Range	15W	
Miller Count	y, Missouri,	APAC-Mis	SOUTI INC.		
a Missouri corporation, Missour	i partnership, or indi	• -		r reclaiming t	the land
previously mined under the afore	said permit by	Lake Ozarl	Construction Ind	ustries Inc.	
All reclamation of the above iden Act, Sections 444.760 through 444			nce with the Misso	ouri Land Recl	amation
Notwithstanding, the current per and all rules, regulations, orders, to the above operation until such Program. The undersigned certify the info assumption of reclamation response.	decisions and permit n time as the transfer ermation given above	s of the Missouri La application is appro	nd Reclamation C oved by the Misso	Commission pe ouri Land Reci	ertaining lamation
URE \	NAME		7	ITLE	
SED SUCCESSOR COMPANY	John A.	Pasley		Division	n Pres
	a Division			1-6-9	99
.C-Missouri, IncCentral Companie	NAME		1	TITLE	7
we koll	Dave Va	nHooser		General	Manager
NT OPERATOR COMPANY			(DATE)
				1-0-11	
Ozark Construction Industries, Inc					
eared before me this	_ day of JAN	, 19	99 . John	PASLEY DAVE	Yautborg
Ozark Construction Industries, Inc	day of JAN.	, 19	99 . John	PASLEY LDAVE	Yawtbasifi
e Ozark Construction Industries, Inc. Beared before me this Bonally known, who executed the all	oove as their free acts	and deeds.	99 , John		Yawtborg
Ozark Construction Industries, Inc	Dove as their free acts	and deeds.		OF ST. LOUIS)	Yawtborg
e Ozark Construction Industries, Income of the second before me this	DOVE AS THEIR THE ACTS DESSOURA AND SWORN BEFORE ME, DAY OF JA	THIS	COUNTY (OR CITY BOOKE USE RUBBER	OF ST. LOUIS)	
Deared before me this	DOVE AS THEIR THE ACTS DESSOURA AND SWORN BEFORE ME, DAY OF JA	and deeds.	COUNTY (OR CITY BOOKE USE RUBBER	OF ST. LOUIS)	AR AREA BI
e Ozark Construction Industries, Inc. Deared before me this	DOVE AS THEIR TIES ACTS DESCRIPTION OF THE DAY OF THE CHARLES OF THE COMME (TYPED OF PRINTED)	THIS 1999 MY COMMISSION EXPIRES 3/25/02	COUNTY (OR CITY BOOKE USE RUBBER	OF ST. LOUIS) STAMP IN CLE	AR AREA BI
PUBLIC EMBOSSER SEAL STATE SUBSCRIBED NOTARY PUBLIC	DOVE AS THEIR TIPE ACTS DESCRIPTION OF THE CONTROL	THIS J. 1999 MY COMMISSION EXPIRES 3/25/02	COUNTY (OR CITY BOOK) USE RUBBER	OF ST. LOUIS) STAMP IN CLE	AR AREA BI





To be completed for each separate area of c	disturbance associate	d with mining operations).	
SITE NAME OR NUMBER		PERMIT NUMBER		
Quarry #12		0688	0688	
COMPANY NAME				
APAC-Missouri, Inc.				
COUNTY	1/4 SECTION		SECTION	
Miller			25,26	
TOWNSHIP	RANGE		ACRES	
42N	15W		95	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)				
MINERAL COMMODITY		ESTIMATED TONS/YEAR (FO	OR GRAVEL SITES)	
Limestone			•	
	····			
NAME OF LANDOWNER (ATTACH LIST IF MORE THAI	N ONE)			
APAC-Missouri, Inc.				
ADDRESS				
1591A Prathersville Road				
CITY		STATE	ZIP CODE	
Columbia		МО	65202	
SOURCE OF RIGHT TO MINE (CHECK ONE)			DATE OF AGREEMENT	
MINERAL DEED		LEASE		
WARRANTY DEED		VERBAL AGREEMENT		
OTHER (DESCRIBE):				
MINERAL RIGHTS OWNER (ATTACH LIST IF MORE TI	HAN ONE)	_		
Same as Landowner	·			
ADDRESS				
CITY		STATE	ZIP CODE	
		U.A.C.	L. SSE	
SOURCE OF RIGHT TO MINE (CHECK ONE):	·		DATE OF ACRES ASSAULT	
MINERAL DEED		LEASE	DATE OF AGREEMENT	
WARRANTY DEED				
_		U VERBAL AGREEMENT		
OTHER (DESCRIBE):				
NOTE: Each site must be shown on a map a	and be included in a p	public notice and an app	roved mine plan.	



MISSOURI DEPARTMENT OF NATURAL RESOURCES JAN $1\,1\,1999$ LAND RECLAMATION COMMISSION

MISSOURI LAND

P.O. BOX 176 JEFFERSON CITY, MO 65102

PAGE 1 OF 5

TYPE OF PLAN (CHECK ONE):	RECLAMATION COMMI	SSION
SHORT TERM, FOR ONE PERMIT YEAR	mon troiler control	 · ·
I LONG TERM, FOR PERIOD THROUGH DATE:	February 10, 2020	
DESCRIPTION OF SITE PRIOR TO LAND RECLAMA AND TOPOGRAPHY.	TION COMMISSION PERMITTING (BY APPLICANT OR	PRIOR OPERATOR), INCLUDING SOIL, VEGETATION
Approximately 43 acres located in sec	tion 26 has been stripped of overburden fo	or the construction of overpasses for
	ated in section 25 is in permanent pasture.	
predominant.		I too do min had to grabboo and
OPERATION PLAN - 10 CSR 40-10.020(2)	VD)1.	
A. TOPSOIL	<u> </u>	
AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND R	ECLAMATION COMMISSION PERMITTING	IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
	6 INCHES	☑ YES OR ☐ NO
DESCRIBE METHODS AND EQUIPMENT USED FOR		
SECOMBE ME MODS AND EQUIT MENT COLD FOR	TO SOIE NEMOTAE	
removed with dozers and scrapers and salvaged and stockpiled to complete a	I stockpiled until removed from the site. In the site of the site of the site of the stock of th	Enough topsoil material will be
DESCRIPTIONS AND COUNTY HOSE FOR	700000 070000 070000	
DESCRIBE METHODS AND EQUIPMENT USED FOR	R TOPSOIL STORAGE AND PROTECTION	
Topsoil to be sold will be stored in sto	ockpiles and if necessary graded and prope	erly seeded to reduce sedimentation
until removal. Topsoil material that is	s to remain on site for reclamation will be	seeded with vegetation as soon as the
stockpile is completed during the next	t available seeding period. Temporary cov	ver and mulch will be used if the next
optimum seeding period is not within	60 days following completion of the stock	kpile.



B. SPOI	L		AU CHRITAND
DESCRIBE	METHODS	AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL	RECLAMATION COMMISSION
		will be removed, stored, and protected on permitted acmaterial will be placed along the southern permit bou	cres for site development or sold as fill material
C. ACID	MATER	IALS	
DESCRIBE	METHODS	AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE	EIS ANTICIPATED, WRITE "NONE" BELOW)
None.			
D. PIT I	NFORM	TION (GIVE ALL DIMENSIONS IN FEET)	
		N AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS	
See att	tached d	etail map.	
VEC	NO.		
YES	NO NO		
	Ø	Will any excavation be at or within fifty feet (50') of the	right-of-way of any public road?
	13 3	· · · · · · · · · · · · · · · · · · ·	it in place, a slope of no more than forty degrees may excavation be closer to the right of way than fifty feet is the depth of unconsolidated material, whichever is
	$\overline{\mathbf{x}}$	Will any excavation start at or within fifty feet (50') of a (NOTE: If the answer is "yes", a safety barrier may be r	



RECLAMATION PLAN - 1			MISSOURI LA		
A. REVEGETATION (At	tach additional she		RECLAMATION CO.		
REVEGETATION MIX #1		PURPOSE OR LAND USE	_	B. SEEDING OR PLA	
Fescue/Red Clover		Commercial Develo	•	First optimal p	eriod following grading.
Pit areas will be left open leveled, and covered with	to develop for com the best available i	mercial or industrial material to obtain a g	development. The disturgood seedbed.		·
Lime and fertilizer will be will be applied to all slope SEEDED SPECI	es exceeding 5:1.	to recommendation	TREE OR SHRUB		xture and nutrients. Mulch
-					
Fescue		20			
Red Clover		5			
Annual Rye (spring)		10			
Wheat (fall/winter)		bushel			
REVEGETATION MIX #2		PURPOSE OR LAND USE		B. SEEDING OR PLA	NTING TIME
Lime and fertilizer will be will be applied to all slope		to recommendation	ns made, based on an an	alysis of soil te	xture and nutrients. Mulct
SEEDED SPEC	IES	POUNDS/ACRE	TREE OR SHRUB	SPECIES	STEMS/ACRE



a GRADING	Newscoriland
DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES	RECLAMATION COMMISSION
When quarrying is completed the pit area will be relatively flat with a spoil material and/or unconsolidated material above the highwalls will be relatively flat with a spoil material and/or unconsolidated material above the highwalls will be relatively flat with a spoil material and/or unconsolidated material above the highwalls will be relatively flat with a spoil material and/or unconsolidated material above the highwalls will be relatively flat with a spoil material and/or unconsolidated material above the highwalls will be relatively flat with a spoil material and/or unconsolidated material above the highwalls will be relatively flat with a spoil material and/or unconsolidated material above the highwalls will be relatively flat with a spoil material and/or unconsolidated material above the highwalls will be relatively flat with a spoil material and/or unconsolidated material above the highwalls will be relatively flat with a spoil material and be	durable surface suitable for development. Any remaining
C. DESCRIBE THE GENERA QUENCE AND TIMING OF THE F GRADING Grading of unconsolidated material will be completed as per 10 CSR	
REPLACEMENT OF TOPSOIL	40-10.030 (10) (A).
Replacement of topsoil material will be completed as per 10 CSR 40-	·10.050 (10) (A).
REVEGETATION	
Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).	
AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)	
D. USE OF LAND WHEN RECLAIMED	
Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	95

Water impoundments (for wildlife, agricultural, or development)



MISSOURI LAND RECLAMATION COMMISSION

By my signature, I attest to the following:

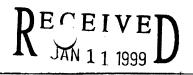
- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

Hickard	f Bak	Vice President	DATE	
NOTARY PUBLIC EMBOSSER SEAL	STATE Missouri SUBSCRIBED AND SWORN BEFOR	RE ME, THIS	COUNTY (OR CITY OF ST. LOUR BOONE	5)
	// DAY OF	JAN 1999	USE RUBBER STAMP IN	CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE	MY COMMISSION EXPIRES 3/25/02	WARREN L Nother Printers	
	NOTARY PUBLIC NAME (TYPED OR PRII WARREN L. H	NTED) HRMS	Constitute 1970/30	Ay 15
APPROVED BY (DIRECTOR'S RE	PRESENTATIVE)	DATE APPROVED	PERMIT NUI	MBER
Jarry	deptis	02/26/9	9 066	68
MO 780-1327 (12-81)	/*	•		04054054

P.O. BOX 176 JEFFERSON CITY, MO 65102

PERMIT TRANSFER (FOR TRANS	FERRING PERMITTED ACRES	FROM ANTI-OPERATORS DANO	THER, WITH NO CHANGES IN MINE
NAME OF CURRENT PERMIT HOLDER DYL Quarties, Inc.	neage)		PERMIT NUMBER 0260
SITE(S)			
DYL Quarry			
ADDRESS			
P.O. Box 152, Route 1		STATE	ZIP CODE
		MO	65011
Barnett contact person		1 MO	PHONE NUMBER
Mike Atkisson			573-348-1515
TO BE COMPLETED BY THE CUR			
List all reclamation bonds which are	e held on this permit		
BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
The American Insurance Co	11118414131	12/26/97	\$29,000
TO BE COMPLETED BY PROPOSI	ED SUCCESSOR		
NAME OF PROPOSED SUCCESSOR		-	
APAC-Missouri, Inc.			
ADDRESS 1591 A Prathersville Road			
СПУ		STATE	ZIP CODE
Columbia		МО	65202
CONTACT PERSON			TELEPHONE NUMBER
Christopher Schwedtmann List any other Land Reclamation C	commission Permits currently	y or previously held by successor	573-449-0886 or or companies owned or partially
controlled by successor.			
NAME OF CO	MPANY	PERMIT NUMBER	MINERAL
Limpus Quarries, Inc.		0570, 0040	Limestone
Grand River Quarry, Inc.		0564	Limestone
City Wide Ashphalt, Inc.		0279	Limestone
Lake Ozark Construction Indu	stries, Inc.	0460	Limestone
Prestage Quarry and Materials	3	0393	Limestone
NOTE: The successor company m	nust provide proof of bond i	replacement and an affidavit of	publication for the required publi-

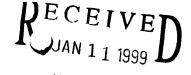
notice.



MISSOURI LAND RECLAMATION COMMISSION TRANSFER OF RECLAMATION RESPONSIBILITY

		o surface mine for	Lır	nestone (MINERAL)	, on the land covered
by Missouri Surface	Mining Permit Nur	nber02	260	_ , which consists	of 50 acres
located in Section _		Township	42N	, Rang	e <u>16W</u> ,
Morgan	County Mis	souri,	APAC-I	Missouri, Inc.	
	County, wis	isouri,	(PI	OPOSED SUCCESSOR)	1
a Missouri corporati	ion, Missouri part	tnership, or indivi	dual, assumes	all responsibility f	or reclaiming the land
previously mined und	der the aforesaid p	ermit by	Lake Oz	ark Construction In	dustries, Inc.
, ,			FO	RMER OPERATOR	
All reclamation of the Act, Sections 444.760		•		lance with the Miss	souri Land Reclamation
and all rules, regulat	tions, orders, decis	sions and permits	of the Missouri	Land Reclamation	Land Reclamation Act Commission pertaining ouri Land Reclamation
The undersigned ce assumption of reclan	•	_	be correct, co	mplete and true, a	and agree to the above
TURE	N.	AME			TITLE
for 1/2)	John A. Pa	ısley		Division President
OSED SUCCESSOR COMPAN	W Lung				DATE
AC-Missouri, IncCentr	i	ision		•	1-6-99
	`				
ATURÉ)	N	AME			TITLE
	JO1	AME Dave Vanl	Hooser		General Manager
arune la la la la la la la la la la la la la	sej n		Hooser		General Manager
	Je j		Hooser		
ATURE OPERATOR COMPANY	de de la companya de			19 <u>99</u> , John	General Manager
ENT OPERATOR COMPANY te Ozark Construction In	ndustries, Inc.	Dave Vani	<i>J.</i> ,	19 <u>99</u> , John	General Manager DATE
ENT OPERATOR COMPANY THE Ozark Construction In The operated before me this	ndustries, Inc.	y of	<i>J.</i> ,	19 <u>99</u> , <u>John</u>	General Manager DATE 1-6-99 Paskey & Dave Vau Hooser
ENT OPERATOR COMPANY THE OZARK Construction In The operated before me this arranged before me this arranged by the operation of the operation	date of the above a state of the state of th	Dave Vani	nd deeds.	COUNTY (OR CIT	General Manager DATE 1-6-99 Paskey & Dave Vau Hooser Y OF ST. LOUIS)
ENT OPERATOR COMPANY THE OZARK Construction In The operated before me this arranged before me this arranged by the operation of the operation	date of the above a state of the state of th	y of	nd deeds.	COUNTY (OR CIT	General Manager DATE 1-6-99 Paskey & Dave Vau Hooser
ENT OPERATOR COMPANY THE OZARK Construction In The operated before me this arranged before me this arranged by the operation of the operation	day day decuted the above a state Subscribed and su	Dave Vanish of January	HIS 19 MY COMMISSIEXPIRES	COUNTY (OR CIT BOC 99 USE RUBBEI ON 6 octory	General Manager DATE 1-6-99 Paskey & Dave Vaulkosser YOF ST. LOUIS)
ENT OPERATOR COMPANY THE OZARK Construction In The operated before me this arranged before me this arranged by the operation of the operation	day day day day day day day day day day	Dave Vanish of January	nd deeds. HIS WY COMMISSIEXPITIES 3/25	COUNTY (OR CIT BOC 99 USE RUBBEI ON 6 octory	General Manager DATE 1-6-99 Paskey & Dave Vau Hooser Y OF ST. LOUIS) WE STAMP IN CLEAR AREA BE NOT ST. 100015
ENT OPERATOR COMPANY THE OZARK Construction In The operated before me this arranged before me this arranged by the operation of the operation	dandustries, Inc. 6 dandecuted the above and state STATE SUBSCRIBED AND S NOTARY PUBLIC SIGNA NOTARY PUBLIC NAME WALKE	Dave Vanish of January	nd deeds. HIS WY COMMISSIEXPITIES 3/25	COUNTY (OR CIT	General Manager DATE 1-6-99 Paskey & Dave Vau Hooser Y OF ST. LOUIS) WE STAMP IN CLEAR AREA BE NOT ST. 100015





MISSOURI LAND
RECLAMATION COMM

To be completed for each separate area of d	listurbance associated v	with mining operation	ns.	NOISSIMM	
SITE NAME OR NUMBER	P	PERMIT NUMBER			
DYL Quarry		0688			
COMPANY NAME					
APAC-Missouri, Inc.					
COUNTY	1/4 SECTION SECTION			N	
Morgan			20	0	
TOWNSHIP	RANGE		ACRES		
42N	16W		1	13	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)			_1		
MINERAL COMMODITY	le	STIMATED TONS/YEAR	FOR GRAVEL	SITES)	
Limestone			•		
			···		
NAME OF LANDOWNER (ATTACH LIST IF MORE THAI	N ONE)				
APAC-Missouri, Inc.					
ADDRESS					
1591A Prathersville Road					
CITY	s	TATE		ZIP CODE	
Columbia		МО		65202	
SOURCE OF RIGHT TO MINE (CHECK ONE):		_		DATE OF AGREEMENT	
MINERAL DEED		LEASE			
WARRANTY DEED		U VERBAL AGREEMENT			
OTHER (DESCRIBE):					
MINERAL RIGHTS OWNER (ATTACH LIST IF MORE TH	HAN ONE)			•	
Same as Landowner					
ADDRESS					
CITY		STATE		ZIP CODE	
SOURCE OF RIGHT TO MINE (CHECK ONE):				DATE OF AGREEMENT	
MINERAL DEED		LEASE			
WARRANTY DEED		VERBAL AGREEMENT			
OTHER (DESCRIBE):					
NOTE: Each site must be shown on a map a	and be included in a pu	blic notice and an ap	proved min	e plan.	



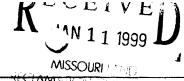
MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION

MINE PLAN

MISSOURI LAND
RECLAMATION COMMISSION

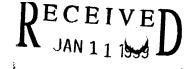
P.O. BOX 176 JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):	asiON .
SHORT TERM, FOR ONE PERMIT YEAR	
LONG TERM, FOR PERIOD THROUGH DATE: February 10, 2020	
DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR AND TOPOGRAPHY.	PRIOR OPERATOR), INCLUDING SOIL, VEGETATION
Site was side of hills extending up to ridge tops. Vegetative cover was mainly of	
very little if any soil good enough to be considered topsoil. Overburden consist	s mainly of clay and rocks in varying
depths.	
	·
OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.	1
A. TOPSOIL	
AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING	IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
Negligible INCHES	YES OR NO
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL	1
future commercial or industrial development. Enough growth medium will be a growth on disturbed areas if needed. Stockpiles will be protected by seeding with the next available growing season.	
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION	
Overburden will be stored and seeded until sold or used for site development.	
Overballatin will be stored and seeded antil sold of asset for site development.	
1	



PAGE 2 OF 5

B. SPOIL	,		V CONVANSSION
DESCRIBE	METHODS	S AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL	***************************************
Spoil m		will be removed, stored, and protected on permitted acres for site develop	pment or sold as fill material
C. ACID	MATER	IALS	
		IIALS S AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE	E "NONE" BELOW)
NT:			
None.			
		ATION (GIVE ALL DIMENSIONS IN FEET)	
DESCRIBE	LOCATIO	ON AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS	
See atta	ached d	etail map.	
I			
YES	NO		
	1 2	Will one executation has a secretary from the second secretary	aublic roado
		Will any excavation be at or within fifty feet (50') of the right-of-way of any p	public road?
	(3)	Will any highwall consisting of unconsolidated materials be left within fif public road? (NOTE: For unconsolidated materials left in place, a slope of start near the right of way, and in no case may the excavation be closer or twenty-five feet plus one and one-half (1-1/2) times the depth of uncongreater, unless a variance is granted by the Commission.)	of no more than forty degrees may to the right of way than fifty feet
[X]		Will any excavation start at or within fifty feet (50') of any property line? (NOTE: If the answer is "yes", a safety barrier may be needed.)	A 3 ft. high safety barrier will installed where necessary.
MO 780-1327	(12-91)	·	PAGE 2 OF



A REVEGETATION (Attach additional sheets, if needed) RECAMATION COWNISSION REPORT AT TOP (Attach additional sheets, if needed) RECAMATION COWNISSION REPORT AT TOP (Attach additional sheets, if needed) RECAMATION COWNISSION REPORT AT TOP (Attach additional sheets, if needed) RECAMATION COWNISSION REPORT AT TOP (Attach additional sheets, if needed) RECAMATION COWNISSION REPORT AT TOP (Attach additional sheets, if needed) RECAMATION COWNISSION REPORT AT TOP (Attach additional sheets, if needed) RECAMATION COWNISSION REPORT AT TOP (Attach additional sheets, if needed) RECAMATION COWNISSION REPORT AT TOP (Attach additional sheets, if needed) RECAMATION COWNISSION REPORT AT TOP (Attach additional sheets) RECAMATION COWNISSION RECAMATION RECAMATION COWNISSION RECAMAT	RECLAMATION PLAN - 10 CSR 40-10		MISSOURI LAND)		
REVEGENTATION MIX 87 DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING Pit areas will be left open to develop for commercial or industrial development. The disturbed areas around the pit will be disced, leveled, and covered with the best available material to obtain a good seedbed. Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulciwill be applied to all slopes exceeding 5:1. SEEDED SPECIES POUNDS/ACRE TREE OR SHRUB SPECIES STEMS/ACRE Fescue 20 Red Clover 5 Annual Rye (spring) 10 Wheat (fall/winter) DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING B. SEEDING OR PLANTING TIME DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulciwill be applied to all slopes exceeding 5:1.	A. REVEGETATION (Attach additional sheets, if needed) RECLAMATION COMMISSION					
Pit areas will be left open to develop for commercial or industrial development. The disturbed areas around the pit will be disced, leveled, and covered with the best available material to obtain a good seedbed. Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulci will be applied to all slopes exceeding 5:1. SEEDED SPECIES POUNDS/ACRE TREE OR SHRUB SPECIES STEMS/ACRE Fescue 20 Red Clover 5 Annual Rye (spring) 10 Wheat (fall/winter) bushel REVEGETATION MEK RZ PURPOSE OR LAND USE B. SEEDING OR PLANTING DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulci will be applied to all slopes exceeding 5:1.				B. SEEDING OR PLAI	· · ·	
Pit areas will be left open to develop for commercial or industrial development. The disturbed areas around the pit will be disced, leveled, and covered with the best available material to obtain a good seedbed. Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulci will be applied to all slopes exceeding 5:1. SEEDED SPECIES POUNDS/ACRE TREE OR SHRUB SPECIES STEMS/ACRE Fescue 20 Red Clover 5 Annual Rye (spring) 10 Wheat (fall/winter) bushel DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulci will be applied to all slopes exceeding 5:1.				First optimal po	eriod following grading.	
SEEDED SPECIES POUNDS/ACRE TREE OR SHRUB SPECIES STEMS/ACRE Fescue 20 Red Clover 5 Annual Rye (spring) 10 Wheat (fall/winter) bushel B. SEEDING OR PLANTING TIME DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Multiwill be applied to all slopes exceeding 5:1.	Pit areas will be left open to develop	for commercial or industrial of	levelopment. The distur	bed areas aroun	nd the pit will be disced,	
Fescue Red Clover 5 Annual Rye (spring) 10 Wheat (fall/winter) bushel REVEGETATION MIX #2 PURPOSE OR LAND USE B. SEEDING OR PLANTING TIME DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulci will be applied to all slopes exceeding 5:1.	will be applied to all slopes exceeding	j 5 :1.				
Red Clover Annual Rye (spring) 10 Wheat (fall/winter) bushel REVEGETATION MIX #2 PURPOSE OR LAND USE B. SEEDING OR PLANTING TIME DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Muldwill be applied to all slopes exceeding 5:1.	SEEDED SPECIES	POUNUS/ACRE	I KEE OK SHKOB	SPECIES	STEMS/ACRE	
Annual Rye (spring) Wheat (fall/winter) B. SEEDING OR PLANTING TIME DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulci will be applied to all slopes exceeding 5:1.	Fescue	20				
Wheat (fall/winter) B. SEEDING OR PLANTING TIME DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulci will be applied to all slopes exceeding 5:1.	Red Clover	5				
REVEGETATION MIX #2 PURPOSE OR LAND USE B. SEEDING OR PLANTING TIME DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulci will be applied to all slopes exceeding 5:1.	Annual Rye (spring)	10				
DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulci will be applied to all slopes exceeding 5:1.	Wheat (fall/winter)	bushel				
Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulc will be applied to all slopes exceeding 5:1.	REVEGETATION MIX #2	PURPOSE OR LAND USE		B. SEEDING OR PLA	NTING TIME	
SEEDED SPECIES POUNDS/ACRE TREE OR SHRUB SPECIES STEMS/ACRE	Lime and fertilizer will be applied ac	cording to recommendations		alysis of soil tex	kture and nutrients. Mulch	
	SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB	SPECIES	STEMS/ACRE	

В.	GRADING			·		
ne.	CODINE DROPO	CED DEOL	AIMED :	1000004	C4 194 44	

Pit will be left open for commercial or industrial development with a flat durable surface. Any remaining spoil material and/or unconsolidated material above the highwalls will be graded to a slope traversable by farm machinery.

MISSOURI LAND
RECLAMATION GOMMISSION

PAGE 4 OF 5

C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES GRADING	
Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).	
<i>2</i>	
REPLACEMENT OF TOPSOIL	
Replacement of the best available material will be completed as per 10 CSR 40-10.050 (10) (A).	
REVEGETATION	
Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).	
AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)	
D. USE OF LAND WHEN RECLAIMED	ESTIMATED ACRES:
Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	113
Water impoundments (for wildlife, agricultural, or development)	
L MO 780-1327 (12-91)	PAGE 4 OF



MISSOURI LAND RECLAMATION COMMISSION

By my signature, I attest to the following:

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT	L Box	[1	Vice President	DATE ///99
NOTARY ÄUBLIC EMBOSSER SEAL	SUBSCRIBED AND SWOR	 -	,	COUNTY (OR CITY OF ST. LOUIS) BOON 5
	NOTARY PUBLIC SIGNATURE NOTARY PUBLIC NAME (TYPE	Sem	MY COMMISSION EXPIRES 3/25/02	USE RUBBER STAMP IN CLEAR AREA BELOW V 2N 1 to Londo Riotan of Cate of Niscouri Name of Cate of Niscouri
APPROVED BY (DIRECTOR'S RE		1	DATE APPROVED	PERMIT NUMBER
MO 780-1327 (12-91)	Theof his		0476/9	9 0668



MISSOURI DEPARTMENT & MATURAL RESOURCES TAND RECLAMATION COMMISSION

PERMIT TRANSFER



MISSOURI LAND

P.O. BOX 176 JEFFERSON CITY, MO 65102

AME OF CURRENT PERMIT HOLDER			PERMIT NUMBER 0393	
Prestage Quarry and Materials	, Inc.		0393	
TE(S)				
Prestage Quarry				
P.O. Box 1214				
m		STATE	ZIP CODE	
Laurie		MO	65038	
ONTACT PERSON			PHONE NUMBER	
Mike Atkisson O BE COMPLETED BY THE CUP	RENT DERMIT HOLDER		573-348-1515	
ist all reclamation bonds which a				
BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT	
The American Insurance Co	11119272943	5/6/94	\$11,500	
			1	
O BE COMPLETED BY PROPOS	ED SUCCESSOR			
AME OF PROPOSED SUCCESSOR				
APAC-Missouri, Inc.				
DORESS 1591 A Prathersville Road				
пү		STATE	ZIP CODE	
Columbia		MO	65202	
ONTACT PERSON			TELEPHONE NUMBER	
Christopher Schwedtmann			573-449-0886	
ist any other Land Reclamation (ontrolled by successor.	Commission Permits currently	or previously held by success	or or companies owned or part	
NAME OF C	DMPANY	PERMIT NUMBER	MINERAL	
Limpus Quarries, Inc.		0570, 0040	Limestone	
Grand River Quarry, Inc.		0564	Limestone	
City Wide Ashphalt, Inc.		0279	Limestone	
	ustries, Inc.	0460	Limestone	
Lake Ozark Construction Ind				

notice.



MISSOURI LAND RECLAMATION COMMISSION

TRANSFER OF RECLAMATION RESPONSIBILITY

in consideration of re	ceiving the righ	t to surface mine fo	or <u>Limes</u>	tone Meral)	_ , on the land covered
by Missouri Surface I	Vining Permit N	umber	393	which consists	of
located in Section	21	_ , Township	40N	, Rang	e17W
Morgan	County, N	Aissouri	APAC-Mis	souri, Inc.	
	County, w	mssourt,		SED SUCCESSOR)	,
a Missouri corporati	on, Missouri pa	artnership, or indi	vidual, assumes all	responsibility f	or reclaiming the land
previously mined und	lar the aforcesid	I normit by	Lake Ozark	Construction In	dustries, Inc.
previously mined disc	er the althesaid	permit by		ROPERATOR	
Act, Sections 444.760) through 444.78	9, RSMo (Supp. 19	90).		couri Land Reclamation Land Reclamation Act
and all rules, regulati	ions, orders, de	cisions and permits	s of the Missouri Lan	d Reclamation	Commission pertaining ouri Land Reclamation
The undersigned cer assumption of reclam		_	to be correct, comp	lete and true, a	and agree to the above
TURE		NAME			TITLE
		John A. I	Paslev		Division President
Klim # 10	ا ۸ ۸ ۸ ا				
SEL STICCESSON COMONN	~				DATE
SED SUCCESSOR COMPAN C-Missouri, IncCentr		ivision			DATE 1-6-99
		ivision NAME			
C-Missouri, IncCentr		· · · · · · · · · · · · · · · · · · ·	nHooser		1-6-99
C-Missouri, IncCentr		NAME	nHooser		1-6-99 TITLE
C-Missouri, IncCentr	al Companies D	NAME	nHooser		1-6-99 TITLE General Manager
C-Missouri, IncCentr	al Companies D dustries, Inc.	Dave Va		99 , Joh	/-6-99 TITLE General Manager DATE /-6-99
C-Missouri, IncCentroper (Company) NT OPERATOR COMPANY OZARK Construction In	dustries, Inc.	Dave Value of	N. , 19	99 , Joh	/-6-99 TITLE General Manager DATE /-6-99
C-Missouri, IncCentrover. TYPE NT OPERATOR COMPANY COZAR Construction Inc. Deared before me this	dustries, Inc.	Dave Value of	N. , 19	99 Joh	1-6-99 TITLE General Manager DATE 1-6-99 N PAS LEY & DAVE VANIBORIA
C-Missouri, IncCentrover. TYPE NT OPERATOR COMPANY COZAR Construction In Deared before me this	dustries, Inc.	Dave Value of	గు. , 19 and deeds.	COUNTY (OR CIT	1-6-99 TITLE General Manager DATE 1-6-99 N PAS LEY & DAVE VANIBORIAN Y OF ST. LOUIS)
C-Missouri, IncCentrover. TYPE NT OPERATOR COMPANY COZAR Construction In Deared before me this	dustries, Inc.	Dave Value of Da	ル, 19 and deeds. THIS/	COUNTY (OR CIT	1-6-99 TITLE General Manager DATE 1-6-99 NPAS LEY & DAVE VAN LOSSON Y OF ST. LOUIS)
C-Missouri, IncCentrover. TYPE NT OPERATOR COMPANY COZAR Construction In Deared before me this	dustries, Inc.	Dave Value of Da	and deeds. THIS 19 89 MY COMMISSION	COUNTY (OR CIT	1-6-99 TITLE General Manager DATE 1-6-99 A PAS LEY & DAVE VANIBORAN Y OF ST. LOUIS) TOWE R STAMP IN CLEAR AREA BE
C-Missouri, IncCentrover. TYPE NT OPERATOR COMPANY COZAR Construction In Deared before me this	dustries, Inc. dustries, Inc. STATE SUBSCRIBED AND MOTARY PUBLIC SIG	Dave Value Dave Value Dave Value Dave Value Dave Value Dav of January Dav of January Dav of January Dav of January	THIS THIS MY COMMISSION EXPIRES 3/25/02	COUNTY (OR CIT	1-6-99 TITLE General Manager DATE 1-6-99 NPAS LEY & DAVE VAN LOSSON YOF ST. LOUIS)
C-Missouri, IncCentrover. TYPE NT OPERATOR COMPANY COZAR Construction In Deared before me this	dustries, Inc. dustries, Inc. STATE SUBSCRIBED AND MOTARY PUBLIC SIG	Dave Value Dave Value Dave Value Dave Value Dave Value Dav of January Dav of January Dav of January Dav of January	THIS THIS MY COMMISSION EXPIRES 3/25/02	COUNTY (OR CIT	TITLE General Manager DATE 1-6-99 N PAS LEY F DAVE VANIBORA Y OF ST. LOUIS) TOWE STAMP IN CLEAR AREA BEILE INMS Public - State of Misseuri
C-Missouri, IncCentrover. TYPE NT OPERATOR COMPANY COZAR Construction In Deared before me this	dustries, Inc. dustries, Inc. SUBSCRIBED AND MOTARY PUBLIC SIGNATURE MOTARY PUBLIC NAME WALKE	Dave Value Dave Value Dave Value Dave Value Dave Value Dave Value Dave Value Dave Value Dave Value Dave Value Dave Value Dave Dave Value Dave V	THIS THIS MY COMMISSION EXPIRES 3/25/02	COUNTY (OR CIT	TITLE General Manager DATE 1-6-99 N PAS LEY F DAVE VANIBORA Y OF ST. LOUIS) TOWE STAMP IN CLEAR AREA BEILE INMS Public - State of Misseuri





SITE INFORMATION FORM MISSOURI LAND RECIAMATION COMMISSION To be completed for each separate area of disturbance associated with mining operations. SITE NAME OR NUMBER PERMIT NUMBER 0688 Prestage Quarry COMPANY NAME APAC-Missouri, Inc. COUNTY SECTION 1/4 SECTION 21 Morgan TOWNSHIP RANGE ACRES 60 17W 40N RIVER OR STREAM NAME (FOR IN-STREAM ACRES) MINERAL COMMODITY ESTIMATED TONS/YEAR (FOR GRAVEL SITES) Limestone NAME OF LANDOWNER (ATTACH LIST IF MORE THAN ONE) APAC-Missouri, Inc. ADDRESS 1591A Prathersville Road CITY STATE ZIP CODE 65202 MO Columbia SOURCE OF RIGHT TO MINE (CHECK ONE): DATE OF AGREEMENT LEASE MINERAL DEED WARRANTY DEED VERBAL AGREEMENT OTHER (DESCRIBE):

MINERAL RIGHTS OWNER (ATTACH LIST IF MORE THAN ONE)		
Same as Landowner		
ADDRESS		
CITY	STATE	ZIP CODE
SOURCE OF RIGHT TO MINE (CHECK ONE):		DATE OF AGREEMENT
MINERAL DEED	LEASE	
WARRANTY DEED	VERBAL AGREEMENT	L
OTHER (DESCRIBE):		
NOTE: Each site must be shown on a map and be include	d in a public notice and an appro	oved mine plan.



MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION

MINE PLAN

ECEIUD JAN 1 1 1999

MISSOURI LAND
RECIAMATION COMMISSION

P.O. BOX 176 JEFFERSON CITY, MO 65102

PAGE 1 OF 5

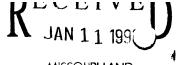
REC!/	WMMILLIN CO	MAICCION
TYPE OF PLAN (CHECK ONE):		
SHORT TERM, FOR ONE PERMIT YEAR LONG TERM, FOR PERIOD THROUGH DATE: February 10, 2020		
DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (B)	Y ADDI ICANT OD	DOIOD ODERATORY INCLUDING SOIL VEGETATION
DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (B	TAPPLICANT OR	PHIOR OPERATOR), INCLUDING SOIL, VEGETATION
This plan covers an area of approximately 60 acres. Most of the n	nine site lies i	n an area which is steenly sloned and
heavily wooded. Topsoil is very thin and rocky. Overburden cons		
		total and rooms in varying dopais.
OPERATION PLAN - 10 CSR 40-10.020(2)(D)1.		
A. TOPSOIL AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMIT	TIMO	LIS TOPSON TO BE SOUR OR DISCUSTED OFFICE
		IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
Negligib	le INCHES	YES OR NO
available growing season.		
DESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTEC	TION	
Overburden will be stored and seeded until sold or used for site de	evelonment	
Overbuilden will be stored und seeded until sold of used for site de	с с с оригонт.	



B. SPOI	L	MISSOURI AND
		AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL RECEASURATION COMMISSION
		=- 1 1.01 m - 1 m
		will be removed, stored, and protected on permitted acres for site development or sold as fill material material will be placed between the pit area and the permit boundaries mainly on the east and west
!		
C. ACID		
DESCRIBE	METHODS	AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)
None.		
		TION (GIVE ALL DIMENSIONS IN FEET)
DESCRIBE	ELOCATIO	N AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS
See att	ached de	etail map.
ļ		
ı		
WE2		
YES	NO	
	⊘	Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?
	-	
	[2]	Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet or twenty-five feet plus one and one-half (1-½) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
□		Will any excavation start at or within fifty feet (50') of any property line? A fence has been installed. (NOTE: If the answer is "yes", a safety barrier may be needed.)



RECLAMATION PLAN - 10 CSR 40-		CI	- MISSOURI	LAND
A. REVEGETATION (Attach additi			CIAMATION (
REVEGETATION MIX #1	PURPOSE OR LAND USE		B. SEEDING OR PLA	
Fescue/Red Clover DESCRIBE METHODS AND EQUIPMENT TO	Commercial Develop		First optimal p	eriod following grading.
Pit areas will be left open to develop leveled, and covered with the best a	o for commercial or industrial	development. The distur	rbed areas aroui	nd the pit will be disced,
Lime and fertilizer will be applied ac will be applied to all slopes exceedir		s made, based on an ana	alysis of soil te	kture and nutrients. Mulc
SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB	SPECIES	STEMS/ACRE
Fescue	20			
Red Clover	5			
Annual Rye (spring)	10			
Wheat (fall/winter)	bushel			
REVEGETATION MIX #2	PURPOSE OR LAND USE		B. SEEDING OR PLA	NTING TIME
Lime and fertilizer will be applied a will be applied to all slopes exceeding	ccording to recommendation		alysis of soil te	xture and nutrients. Mulc
SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB	SPECIES	STEMS/ACRE
ATTACH ADDITIONAL SHEETS FO	DR ADDITIONAL SEED MIXE			



		IN JAN 1 1 19		
		MISSOURI LAN	· •	
B. GRADING		PECLAMATION CON		
DESCRIBE PROPOSED RECLAIM	ED TOPOGRAPHY, INCLUDING SLO	OPES		
		oment with a flat durable surfi ded to a slope traversable by i	ace. Any remaining spoil mater	rial and/or
	RAL SEQUENCE AND TIMIN	G OF THE FOLLOWING AC	TIVITIES	
BRADING				
Grading of unconsolidated	material will be completed as	s per 10 CSR 40-10.050 (10)	(A) .	
REPLACEMENT OF TOPSOIL				
Replacement of the best av	ailable material will be comp	leted as per 10 CSR 40-10.05	0 (10) (A).	

REVEGETATION

Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)

D. USE OF LAND WHEN RECLAIMED Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	60
Water impoundments (for wildlife, agricultural, or development)	



MISSOURI LAND RECLAMATION COMMISSION

By my signature, I attest to the following:

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company t am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT	1BaL	Vice President		1/11/99
NOTARY PUBLIC EMBOSSER SEAL	SUBSCRIBED AND SWORN BEFORE ME. THE	- 1 m	Boi	
	NOTARY PUBLIC SIGNATURE MARGITYPED OR PRINTED) WARREN L. HARRA	MY COMMISSION EXPIRES 3/25/02	r!o	WARREN L. HARMS tary Put to 200 of Mishouri audic on 1 a 200 by nmiscles of 1 200 200 2002
APPROVED BY (DIRECTOR'S REP	RESENTATIVE)	DATE APPROVED	G. C.	PERMIT NUMBER
MO 780-1327 (12-91)	16p4-5	02/26/9	9	0668 PAGE 5 08





MISSOURI LAND RECLAMATION COMMISSION JEFFERSON CITY, MO 65102

P.O. BOX 176

e of current permit holder oark Creek Quarty Company			PERMIT NUMBER 0641
S)			
te #1			
ESS	•		
1204 Hwy 39			
		STATE	ZIP CODE
lount Vernon		МО	65712
ACT PERSON		1110	PHONE NUMBER
erry Wilson			417-466-4664
BE COMPLETED BY THE CUR	RENT PERMIT HOLDER		
all reclamation bonds which ar	e held on this permit		
BONDING COMPANY	BOND NUMBER	BOND DATE	AMOUNT
Company Company Company	014002415	9/16/97	\$8,000
mwest Surety Insurance Co.	016002415	9/10/9/	30,000
BE COMPLETED BY PROPOS	ED SUCCESSOR		
E OF PROPOSED SUCCESSOR			
APAC-Missouri, Inc.			
ess P.O. Box 1117			
Columbia	40 damino 15	l MO	ZIP CODE 65205
TACT PERSON		1	TELEPHONE NUMBER
hristopher Schwedtmann			573-449-0886
	Commission Permits currently	or previously held by successor	or or companies owned or part
NAME OF CO	DMPANY	PERMIT NUMBER	MINERAL
cimpus Quarries, Inc.		0570, 0040	Limestone
Grand River Quarry, Inc.		0564	Limestone
City Wide Ashphalt, Inc.		0279	Limestone
OYL Quarries, Inc.		0260	Limestone
Prestage Quarry and Material	s Inc	0393	Limestone
ake Ozark Construction Indi		0460	Limestone
TE: The successor company of	nust provide proof of bond re		publication for the required pr

MISSOURI LAND	
RECLAMATION COMMISSION	AC

TRANSFER OF RECLAMATION RESPONSIBILITY In consideration of receiving the right to surface mine for _____Limestone ____ , on the land covered by Missouri Surface Mining Permit Number 641 which consists of 8 acres located in Section 24 & 25 , Township _____ 23N ____, Range ______22W APAC-Missouri, Inc. Taney County, Missouri, _ (PROPOSED SUCCESSOR) a Missouri corporation, Missouri partnership, or individual, assumes all responsibility for reclaiming the land previously mined under the aforesaid permit by Roark Creek Quarry Company FORMER OPERATOR All reclamation of the above identified land shall be performed in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990). Notwithstanding, the current permit holder agrees to continue to abide by the Missouri Land Reclamation Act and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to the above operation until such time as the transfer application is approved by the Missouri Land Reclamation Program. The undersigned certify the information given above to be correct, complete and true, and agree to the above assumption of reclamation responsibility. SIGNATURE NAME TITLE Richard L. Baker Vice-President PÁOPOSED SUCCESSOR COMPANY DATE APAC-Missouri, Inc.-Central Companies Division SIGNATURE **Terry Wilson** President CURRENT OPERATOR COMPANY Roark Creek Quarry Company , 19 99 RECHARD L. BAKER _ day of __ Appeared before me this . personally known, who executed the above as their free acts and deeds. NOTARY PUBLIC EMBOSSER SEAL STATE COUNTY (OR CITY OF ST. LOUIS) MISSOURE BOONE SUBSCRIBED AND SWORN BEFORE ME, THIS 20th DAY OF 19 99 USE RUBBER STAMP IN CLEAR AREA BELOW MY COMMISSION QTARY PUBLIC SIGNATURE WARREN L. COMES EXPINES Motory Public - State of Aliacouri 3/25/2002 Commissioned in Boone County NOTARY PUBLIC NAME (TYPED OR PRINTED) My Commission Expires March 25, 00 WARRED L. HARMS TITLE DATE APPROVED APPROVED BY (DIRECTOR'S REPRESENTATIVE)





STEEL CHARACTER			MISSOURI LA D	
To be completed for each separate area	of disturbance associa	ated with mining operatio	ONS. RECLAMATION COMMISSION	
SITE NAME OR NUMBER		PERMIT NUMBER		
Roark Creek		0688		
COMPANY NAME				
APAC-Missouri, Inc.				
COUNTY	1/4 SECTION		SECTION	
Taney			24 and 25	
TOWNSHIP	RANGE		ACRES	
23N	22W		250	
RIVER OR STREAM NAME (FOR IN-STREAM ACRE	ES)			
MINERAL COMMODITY		ESTIMATED TONS/YEAR	(FOR GRAVEL SITES)	
Limestone				
	F1144 C445			-
NAME OF LANDOWNER (ATTACH LIST IF MORE TROUBLE NO. 1) NAME OF LANDOWNER (ATTACH LIST IF MORE TO LIST IF MORE T	THAN ONE)			
•				
ADDRESS				
1101 Walnut, Suite 1008				
CITY		STATE	ZIP CODE 64106	
Kansas City		МО		
SOURCE OF RIGHT TO MINE (CHECK ONE):		1771	DATE OF AGREEMENT	
MINERAL DEED WARRANTY DEED		LEASE		
		LI VERBAL AGREEMENT	r	
OTHER (DESCRIBE):				
			· Marie de la company de la co	
MINERAL RIGHTS OWNER (ATTACH LIST IF MOR	E THAN ONE)			
Same as above.				
ADDRESS				
CITY			ZIP CODE	
		}		
SOURCE OF RIGHT TO MINE (CHECK ONE):			DATE OF AGREEMENT	
MINERAL DEED		LEASE		
WARRANTY DEED		VERBAL AGREEMENT	r	
OTHER (DESCRIBE):				
NOTE: Each site must be shown on a m	ap and be included in	a public notice and an a	pproved mine plan.	



MISSOURI DEPARTMENT OF NATURAL RESOURCES LAND RECLAMATION COMMISSION MINE PLAN

RECEIMED MAY 27 1999

MISSOURI LAND P.O. BOX 176
RECLAMATION COMMISSIONEFFERSON CITY, MO 65102

PAGE 1 OF 5

	4 00/101000014
YPE OF PLAN (CHECK ONE): I short term, for one permit year	
LONG TERM, FOR PERIOD THROUGH DATE: February 10, 2020	
ESCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR ND TOPOGRAPHY.	PRIOR OPERATOR), INCLUDING SOIL, VEGETATION
This plan covers an area of approximately 250 acres. Most of the mine site lies	in an area which is steeply sloped and
wooded with mainly oak and scrub brush. There is very little if any topsoil. O	verburden consists mainly of rocky clay
nardpan.	,
PERATION PLAN - 10 CSR 40-10.020(2)(D)1. TOPSOIL	
VERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLAMATION COMMISSION PERMITTING	IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE
1.5	1
INCHES	YES OR NO
ESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL REMOVAL	
and/or track loaders.	
ESCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION	
Topsoil material will be stockpiled in a stable location using dozers, track loade	ers, and trucks. The stockpile will be
shaped and seeded and mulched to protect against erosion.	



B. SPOIL			MISCOLIDI
DESCRIBE M	ETHODS A	ND LOCATION OF SPOIL PLACEMENT AND DISPOSAL	CHANGE PROPERTY OF THE PROPERT
All overled f			There will be no new slopes as the hillside is being
C. ACID I		I LS IND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NON	IE IS ANTICIPATED, WRITE "NONE" BELOW)
None.		·	•
		'ION (GIVE ALL DIMENSIONS IN FEET) AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS	
See attac			
		•	
YES	NO		
	Ø	Will any excavation be at or within fifty feet (50°) of the	e right-of-way of any public road?
	⊠	public road? (NOTE: For unconsolidated materials le start near the right of way, and in no case may the	rials be left within fifty feet of the right-of-way of any of in place, a slope of no more than forty degrees may excavation be closer to the right of way than fifty feet es the depth of unconsolidated material, whichever is on.)
	\square	Will any excavation start at or within fifty feet (50') of a (NOTE: If the answer is "yes", a safety barrier may be	
MO 780-1327 (*	12-91)		PAGE 2 OF



RECLAMATION PLAN - 10 C			SIAMATION COMMISS	·			
A. REVEGETATION (Attach	additional she	ets, ii rieeded)	SEMANNIONA CLAMINALE				
REVEGETATION MIX #1		PURPOSE OR LAND USE		B. SEEDING OR PLA			
Fescue/Red Clover				First optimal pe	First optimal period following grading.		
This site is being developed f by the Land Reclamation Act	for commercial			ompleted on all i	ringe areas as required		
Lime and fertilizer will be app	plied according	to recommendations	s made, based on an an	alysis of soil te	cture and nutrients. Mulch		
will be applied to all slopes exceeding 5:1. SEEDED SPECIES POUNDS/ACRE TREE OR SHRUB SPECIES STEMS/ACRE							
JEEDED OF LOIES		- John Williams	······································		O'EMONONE		
Fescue		20					
	1	10		:			
Red Clover	1			:			
Korean Lespedeza	1	10	:	:			
Orchard Grass	1	10					
Crown Vetch		5					
Annual Rye (spring)		10					
Wheat (fall/winter)		bushel					
Wheat (lain willer)		oushor					
REVEGETATION MIX #2		PURPOSE OR LAND USE	B. SEEDING OR PLAN		NTING TIME		
Lime and fertilizer will be appoint to all slopes expended to all sl		to recommendations	s made, based on an an	alysis of soil te	kture and nutrients. Mulc		
SEEDED SPECIES		POUNDS/ACRE	TREE OR SHRUB	SPECIES	STEMS/ACRE		
ATTACH ADDITIONAL SHE	ETS FOR ADD	ITIONAL SEED MIXE	S .		A		



PAGE 4 OF 5

B. GRADING	MISSOURI LAND
DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES	RECLAMATION COMMISSION
The floor of the quarry will be left flat and open so it is suitable for development wit should remain so grading is expected to be minimal, however all unconsolidated ma remaining pit will be graded to a slope traversable by farm machinery (3:1).	
C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING A	CTIVITIES
GRADING	
Grading of unconsolidated material will be completed as per 10 CSR 40-10.050 (10) (A).
REPLACEMENT OF TOP: 19	
Replacement of the best available material will be completed as per 10 CSR 40-10.0	050 (10) (A).
REVEGETATION	
Revegetation will be completed as per 10 CSR 40-10.050 (10) (B).	
AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES) See Section A. page 1.	
D. USE OF LAND WHEN RECLAIMED	
Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	250
Water impoundments (for wildlife, agricultural, or development)	

MO 780-1327 (12-91)



MISSOURI LAND RECLAMATION COMMISSION

By my signature, I attest to the following:

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. For the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo (Supp. 1990), and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT		TITLE	DATE		
		Vice President		5/20/99	
NOTARY PUBLIC EMBOSSER SEAL STATE MISSOUTI SUBSCRIBED AND SWORN BEFORE ME, THIS			COUNTY (OR CITY OF ST. LOUIS)		
			BOONE		
	20 DAY OF Man	1999	USE RUBBER STAMP IN CLEAR AREA BELOW		
	HOTARY PUBLIC SIGNATURE	MY COMMISSION	WARHEN L. HAMMS		
	Keron Dan	3/25/2002	Notery Public - State of Minneuri Commissioned in Boone Occurty		
	NOTARY PUBLIC NAME (TYPED OR PRINTED)			niasion Expiros March 25,	
	WARREN L. HARMS		,		
APPROVED BY (DIRECTOR'S REP	RESENTATIVE)	DATE APPROVED		PERMIT NUMBER	
Jam Bontie		06/22/9	9	0688	
440 700 4907 (10 01)	. /			i	BACE & OF &

Map Prepared by Brett Geger: January 27, 2004

MISSOURI LAND RECLAMATION COMMISSION

2004

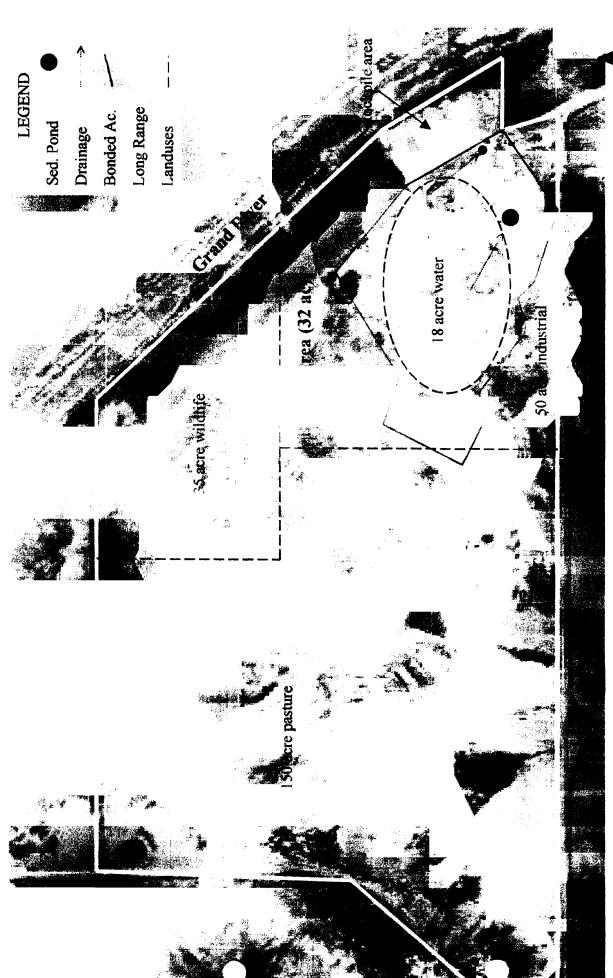
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APAC Missouri Inc. Detail Map (1 of 2) of Gallatin Quarry site in Daviess County; Section 8, T59N, R27W

Map Prepared by Brett Geger, January 27, 2004

Scale: 1" - 1,508'



APAC Missouri Inc. Detail Map (2 of 2) of Gallatin Quarry site in Daviess County; Section 8, T59N, R27W Map Prepared by Brett Geger, February 24, 2004

Map Prepared by Brett Geger, February 24, 2004

Scale: 1" - 560'

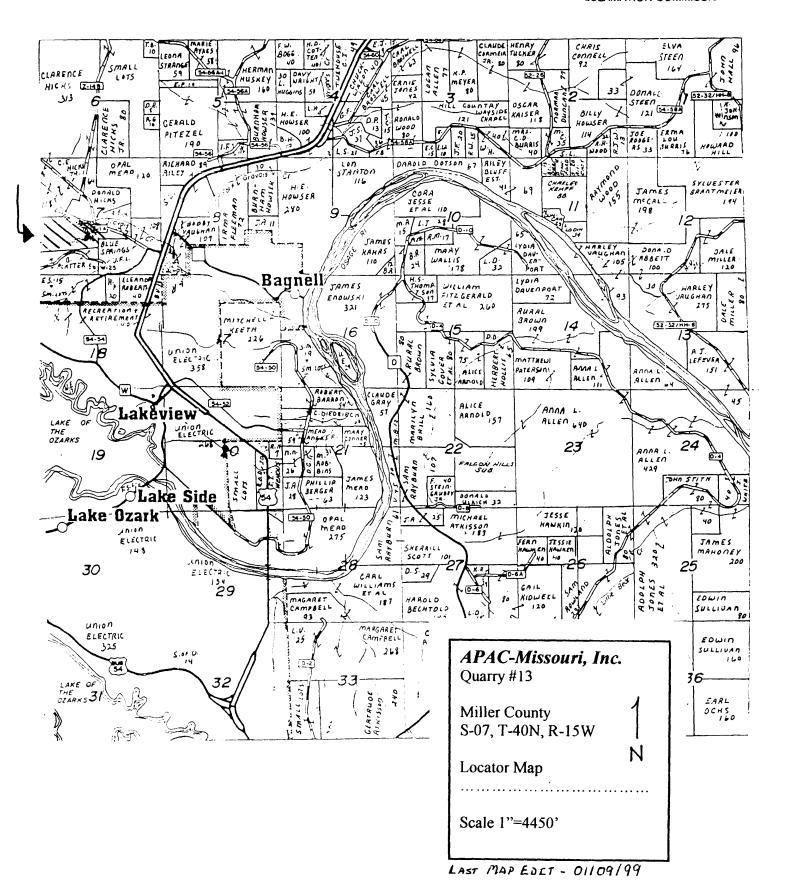
Land uses are approximate in location and configuration.

MISSOURI LAND
RECLAMATION COMMISSION

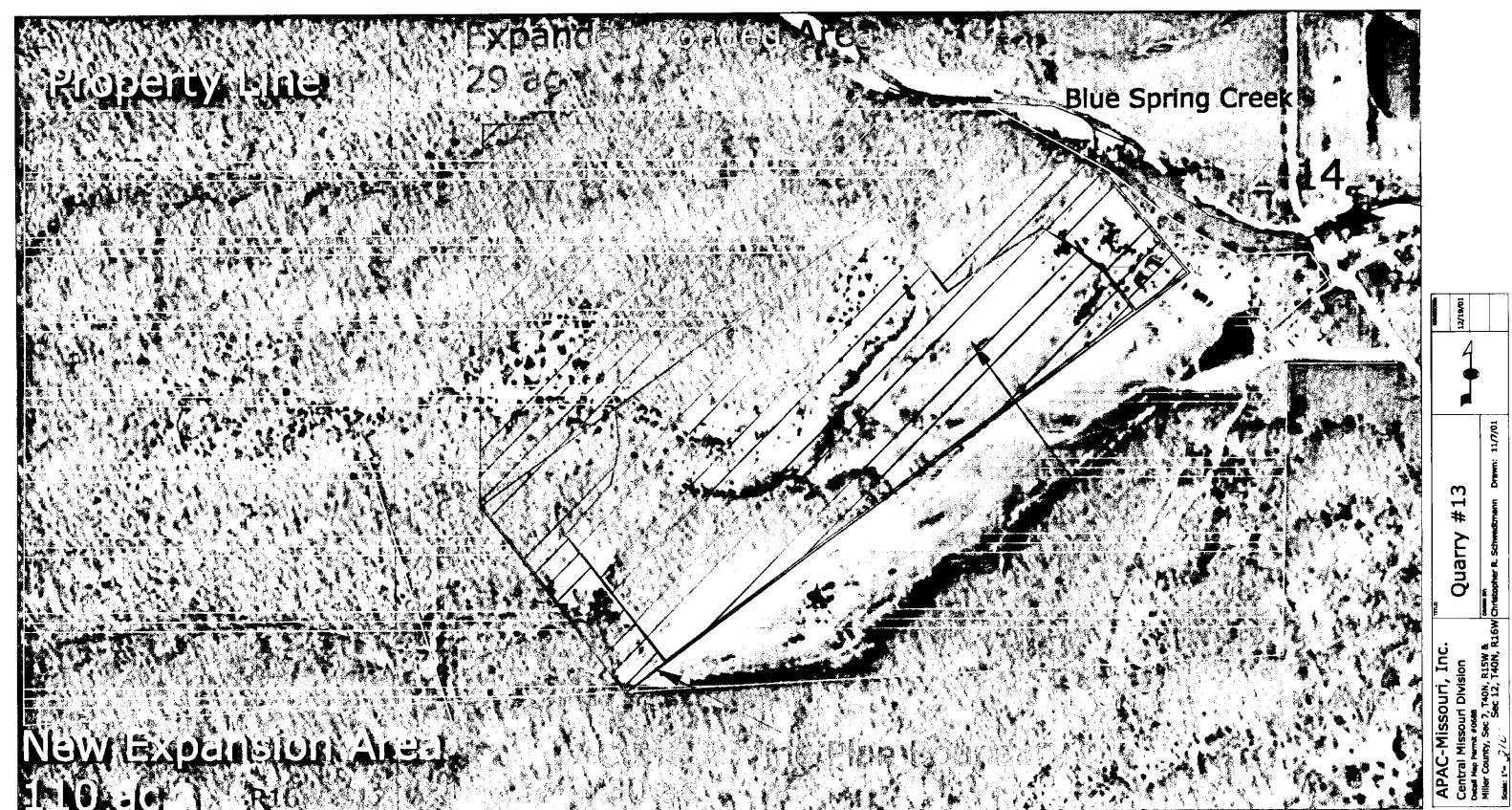
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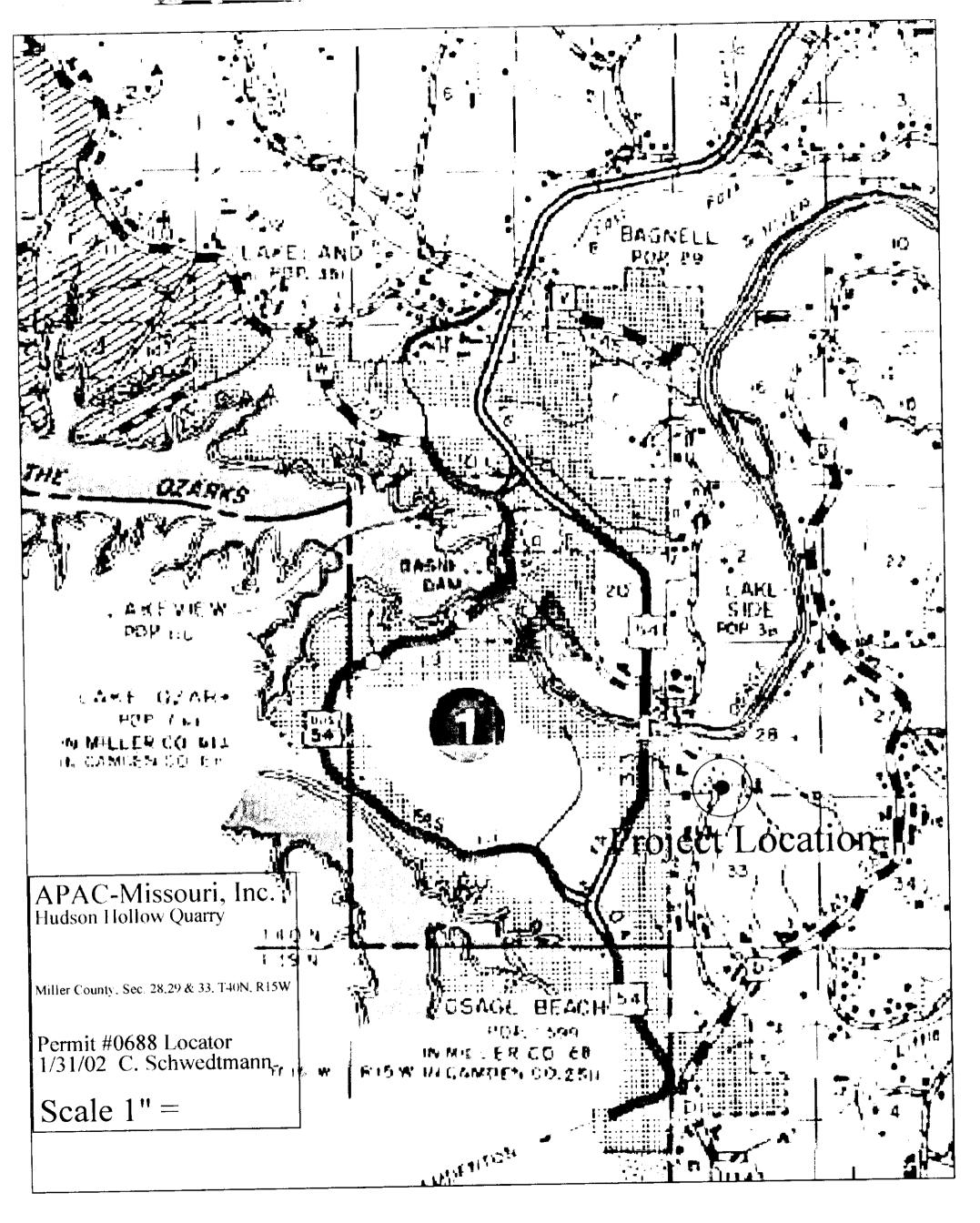
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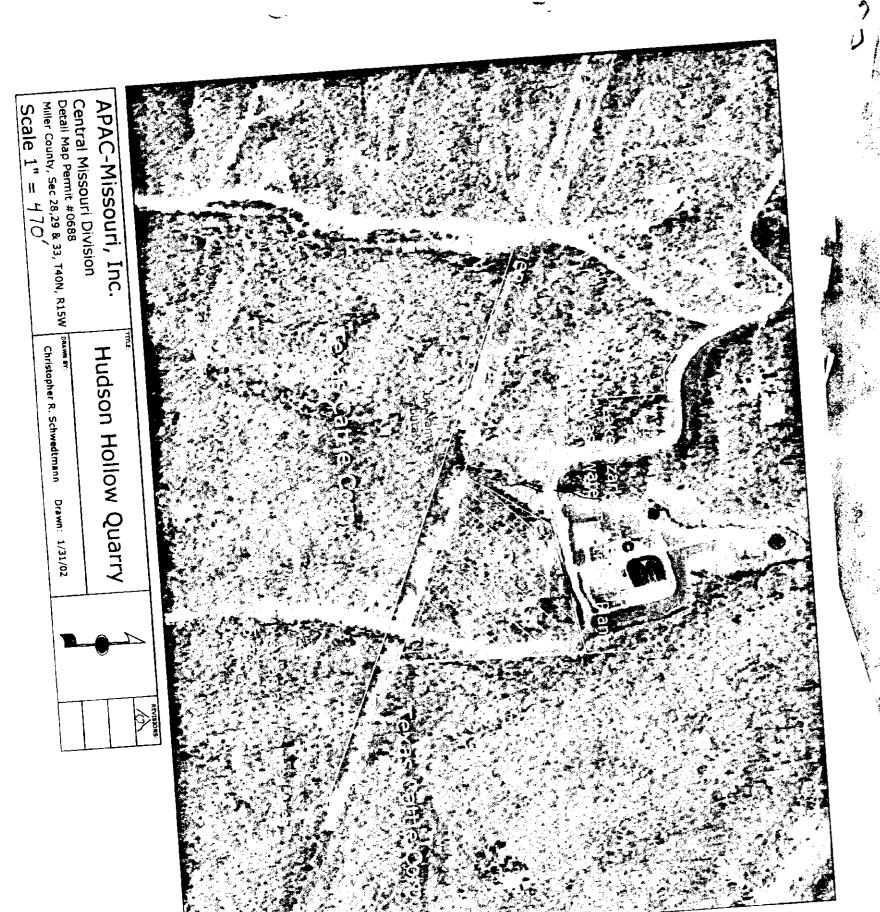
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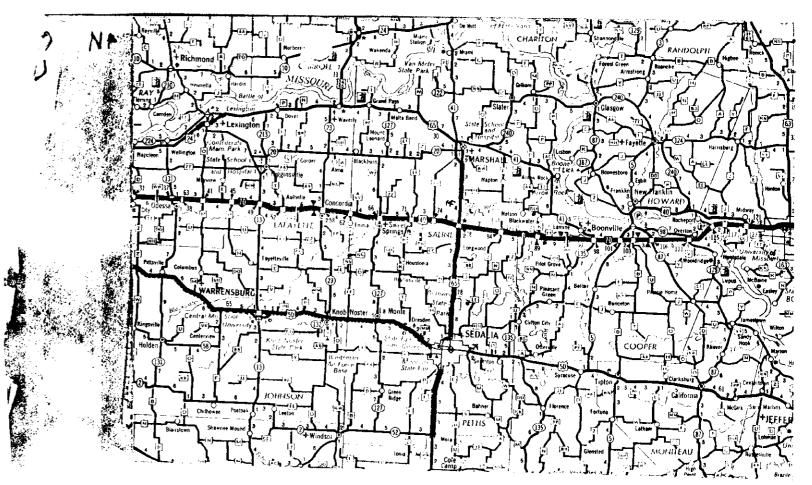


19980 GU KA RECLAMATION DUNANCH









MARSHALL QUARRY LOCATION May
S23 TEGN R21W

Preparal by Jany Wall

522827, T.49N, R21W

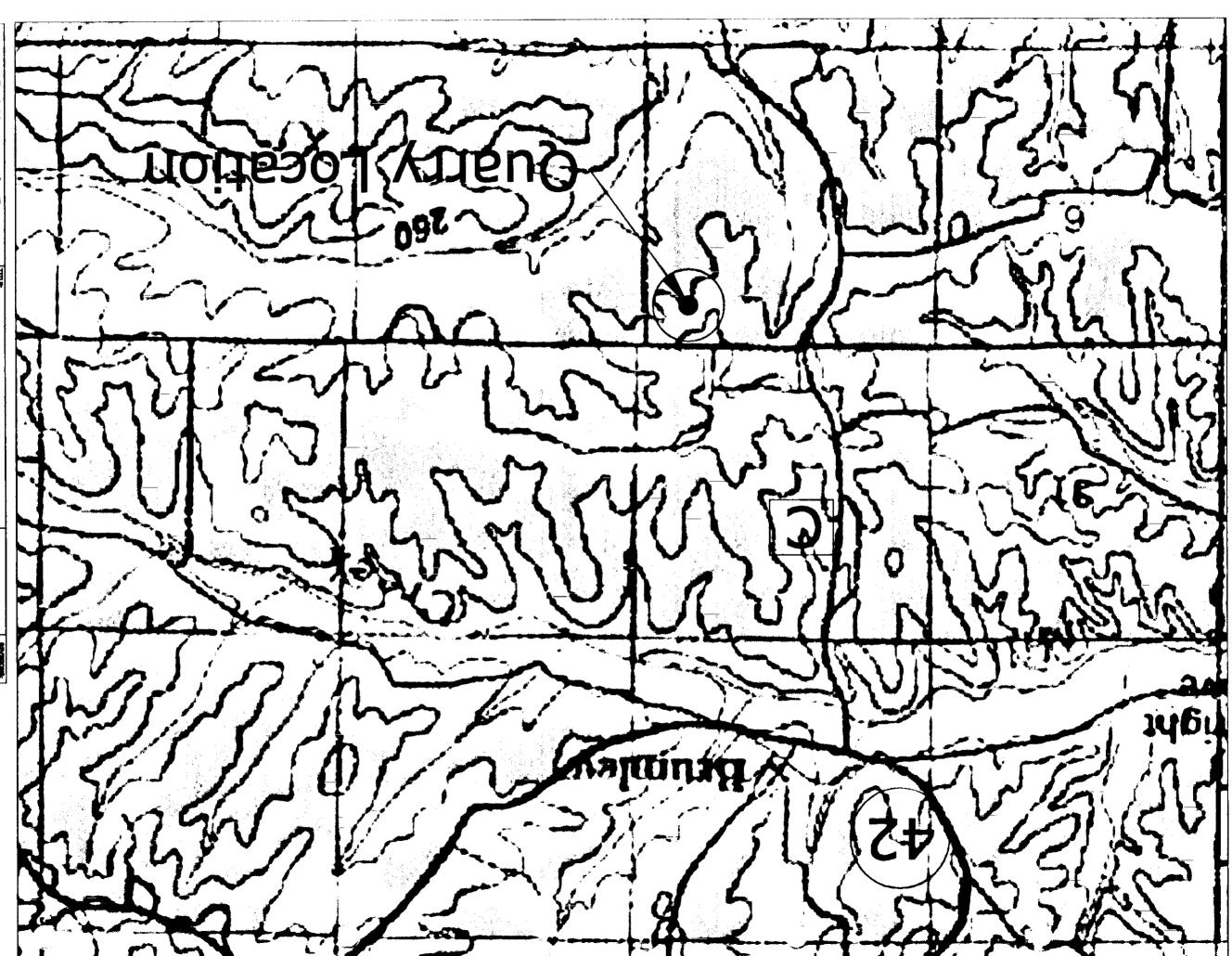
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Substitution Are rea-31 8/22/01 all Quarry Schwedtmann Christopher R. Marsh Expanded Acre
30 acr हर्ने स्वापनि इति । इतिस्मृद्धि इति । ज्ञानकार स्व

Bonded Area- 7

Amended Acres

Central Missouri Division
Detail Map
Saline County, Sec. 22 & 27, T49N, R21W APAC-Missouri, Inc. Scale 1' = 365'



APAC-Missouri, Inc.

Central Missouri Division Locator Map Permit 0688 Miller County, Sec. 5, T38N, R14W

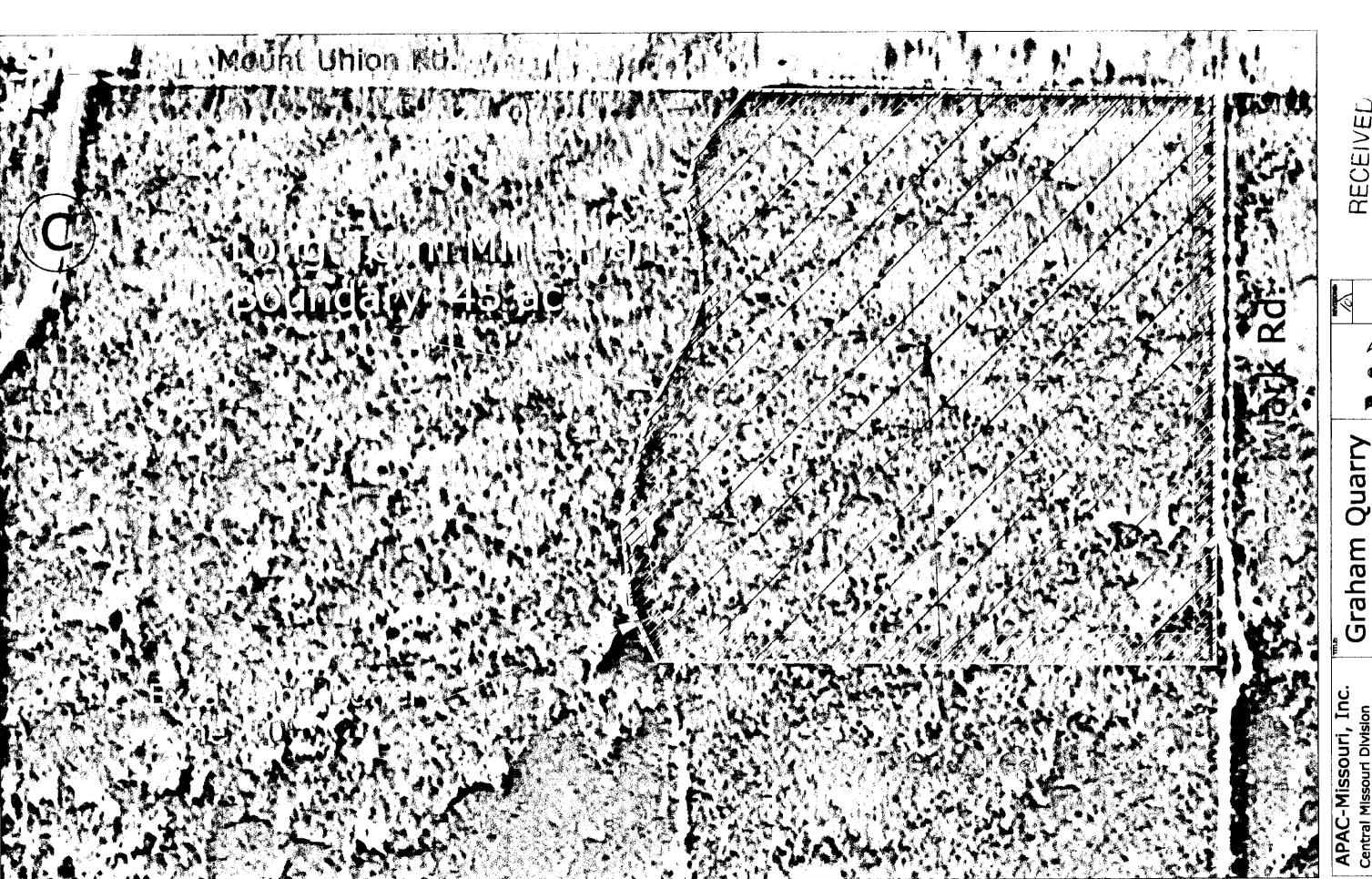
Graham Quarry

Christopher R. Schwedtmann 8/17/01



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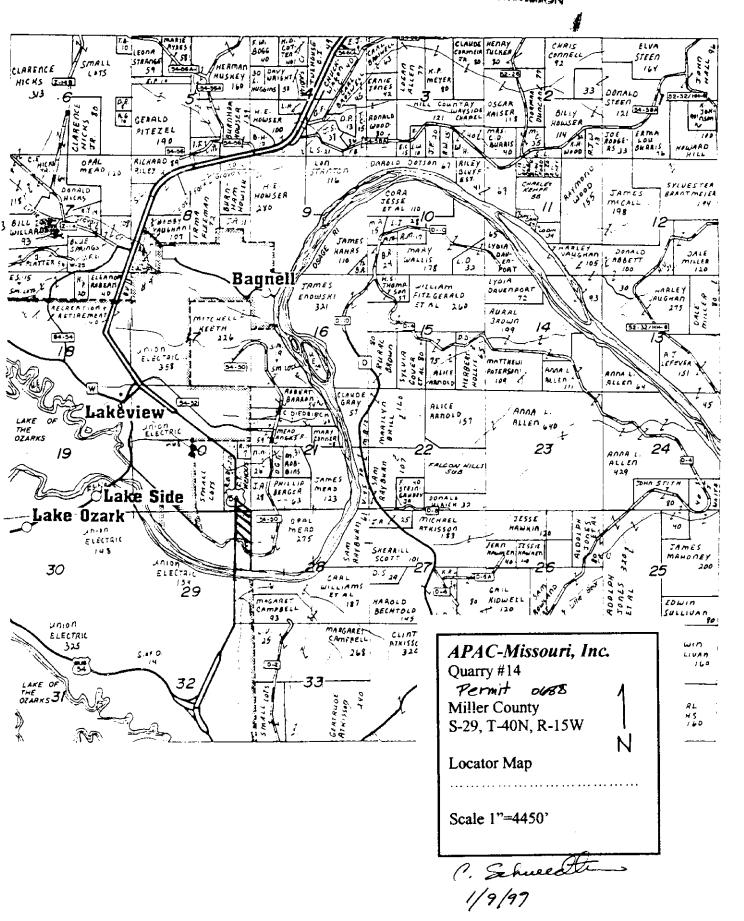
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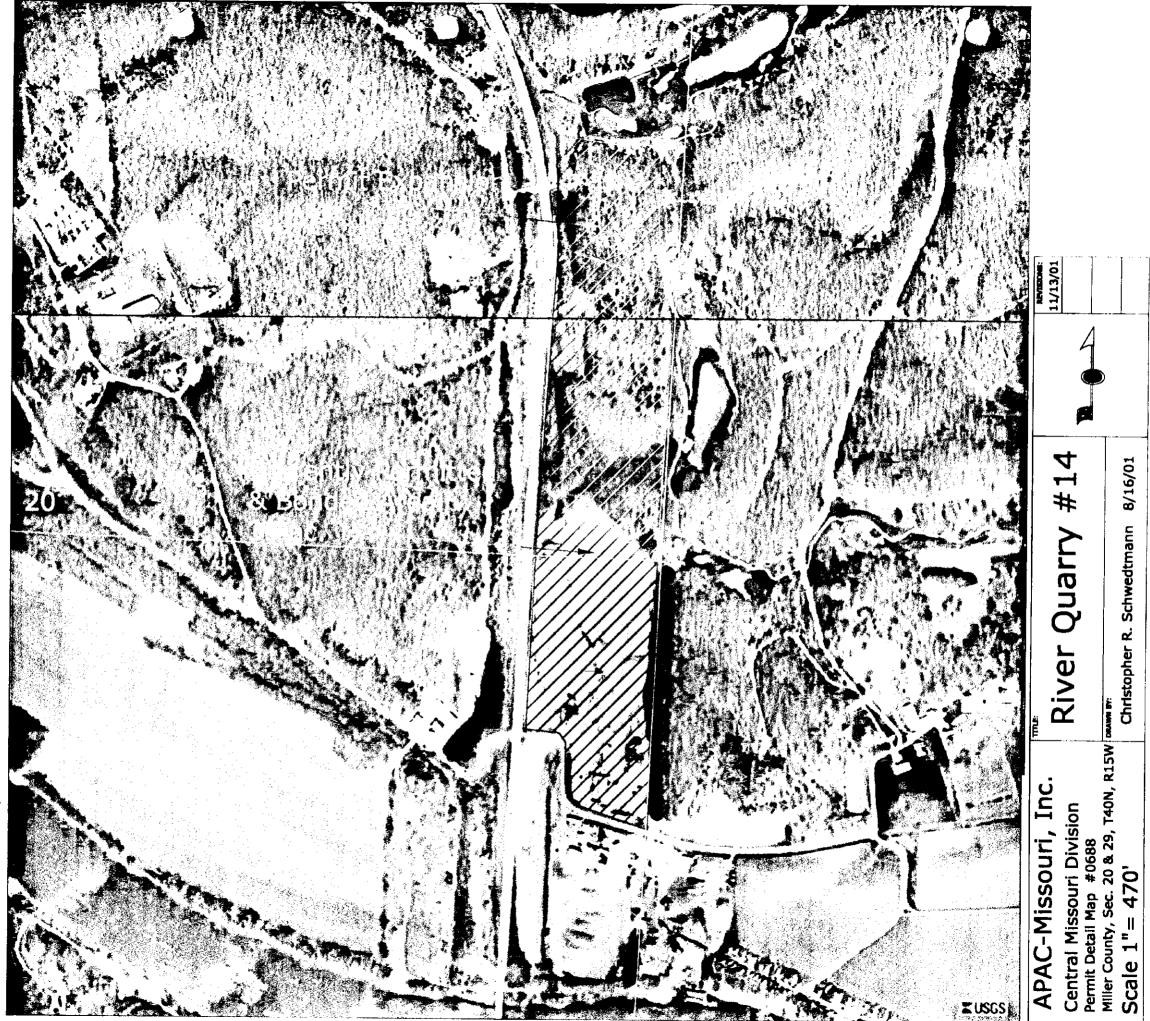


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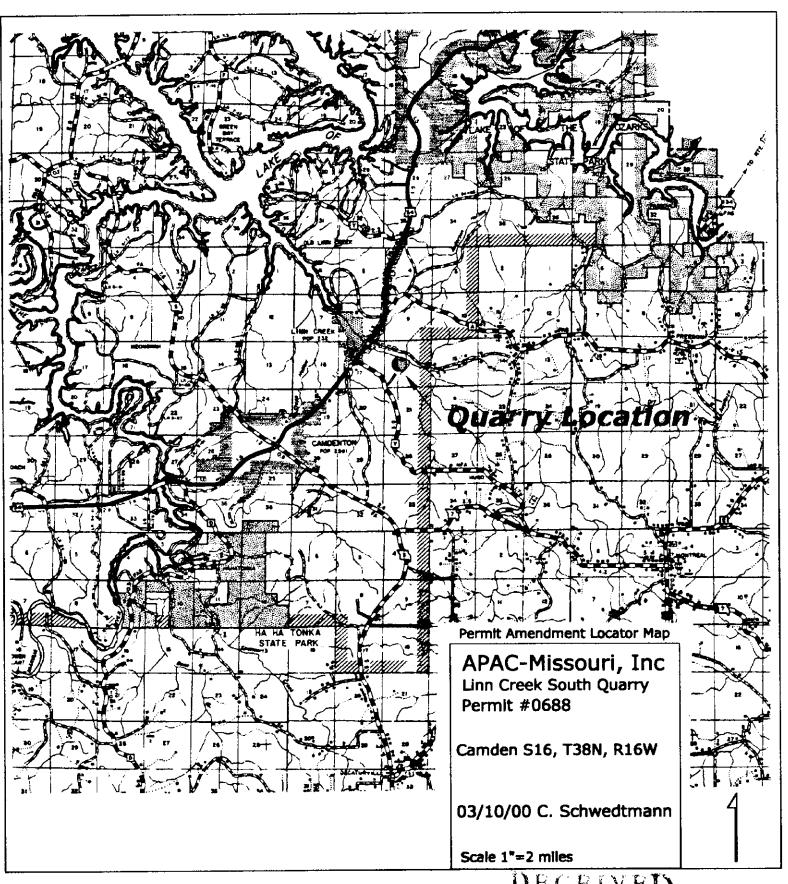




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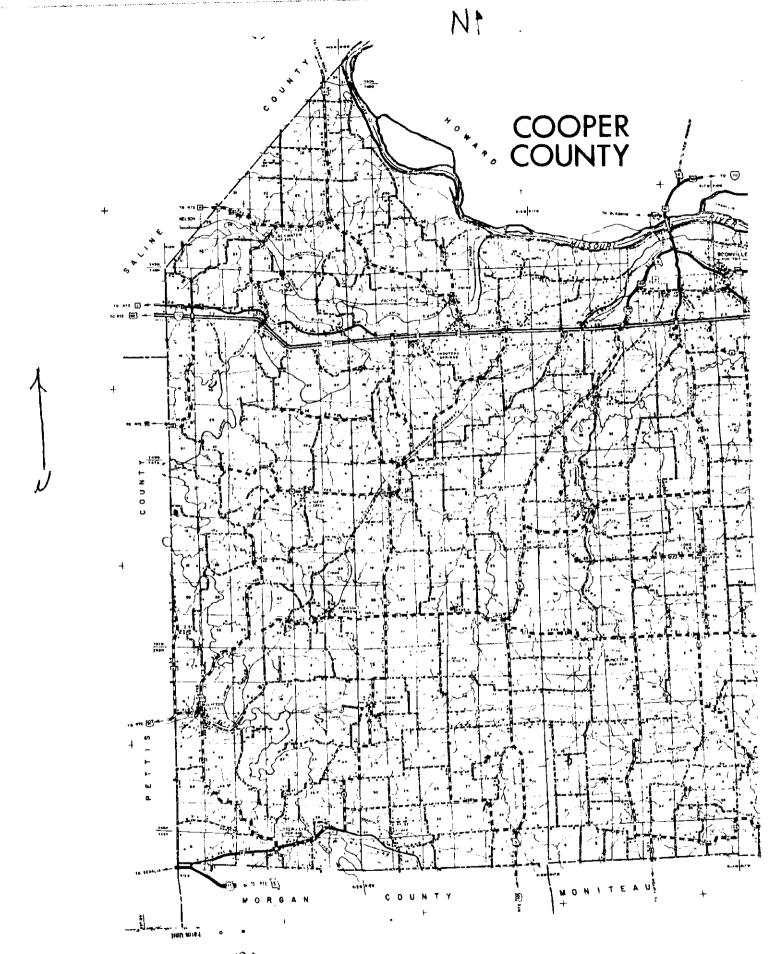
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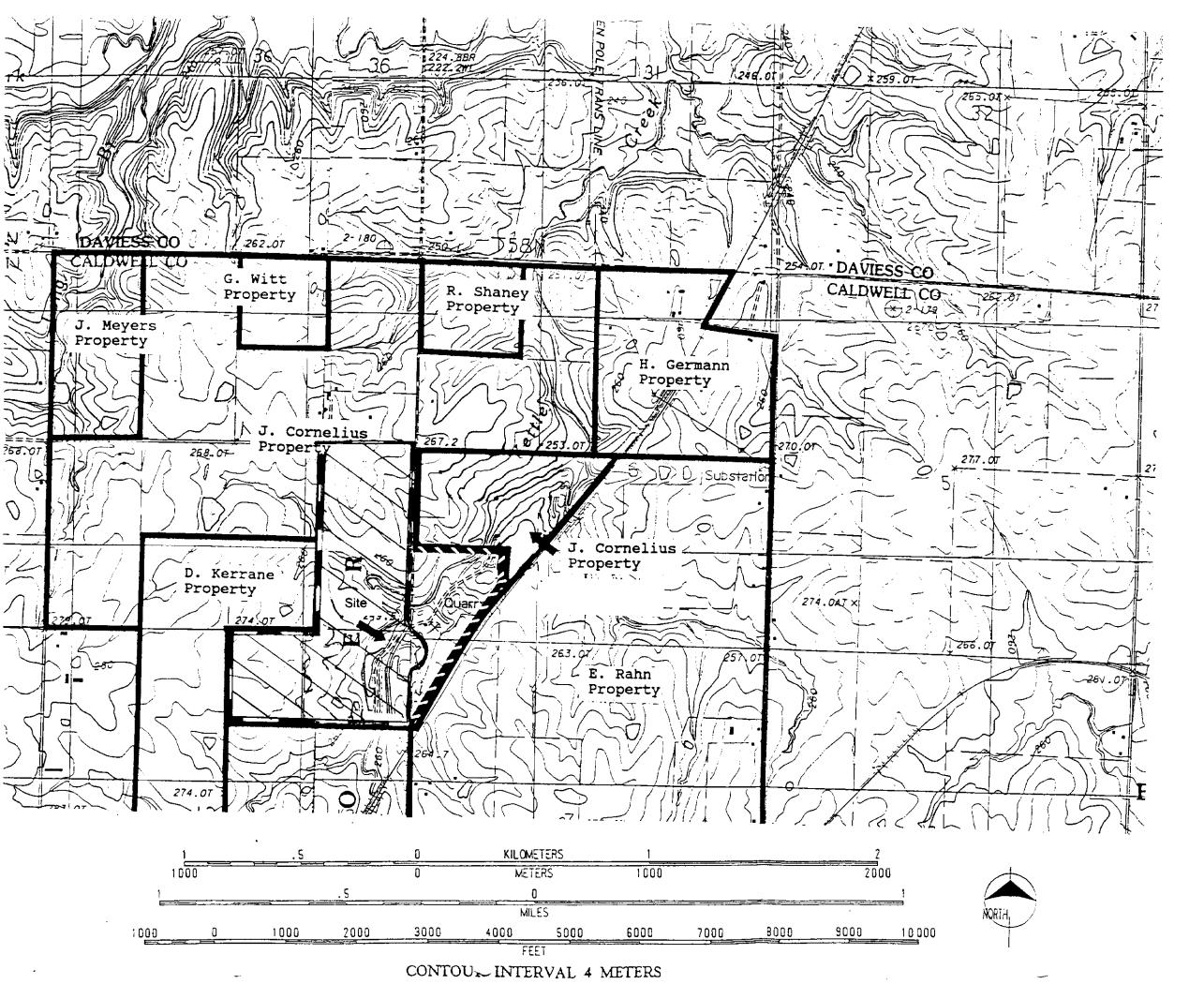
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MISSOURI LAND RECLAMATION COMMISSION



Bonville Quarry location Map 522+23 THEN RITH Regard Lag. Jung Thell





Locator Map

APAC-MO,INC.

NETTLETON QUARRY

T57N, SE 1/4 Section 1, R27W T57N, NE 1/4 Section 12, R27W T57N, SW 1/4 Section 6, R26W T57N, NW 1/4, Section 7, R26W

La + 32, and - 32, 13, 10

Legend

Property line

MINE PLAN

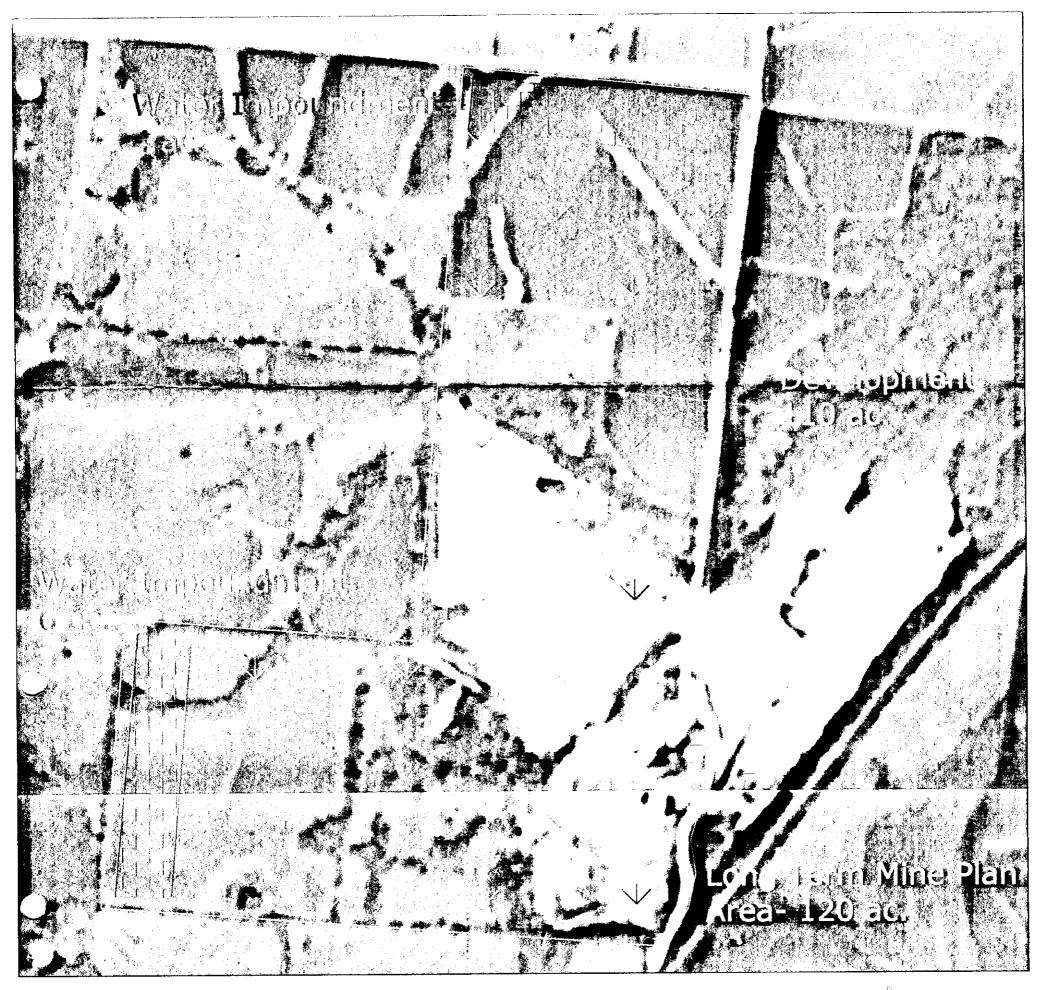
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JUL 2 4 2001

MISSOURI LAND RECLAMATION COMMISSION

C. SCHWEDTMANN

6/28/01



APAC-Missouri, Inc.

Central Missouri Division
Detail Map- Permit #0688

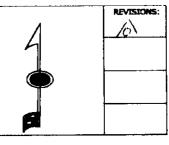
Caldwell County, Secs. 1&12, T57N, R27W 6 & 7, T57N, R26W

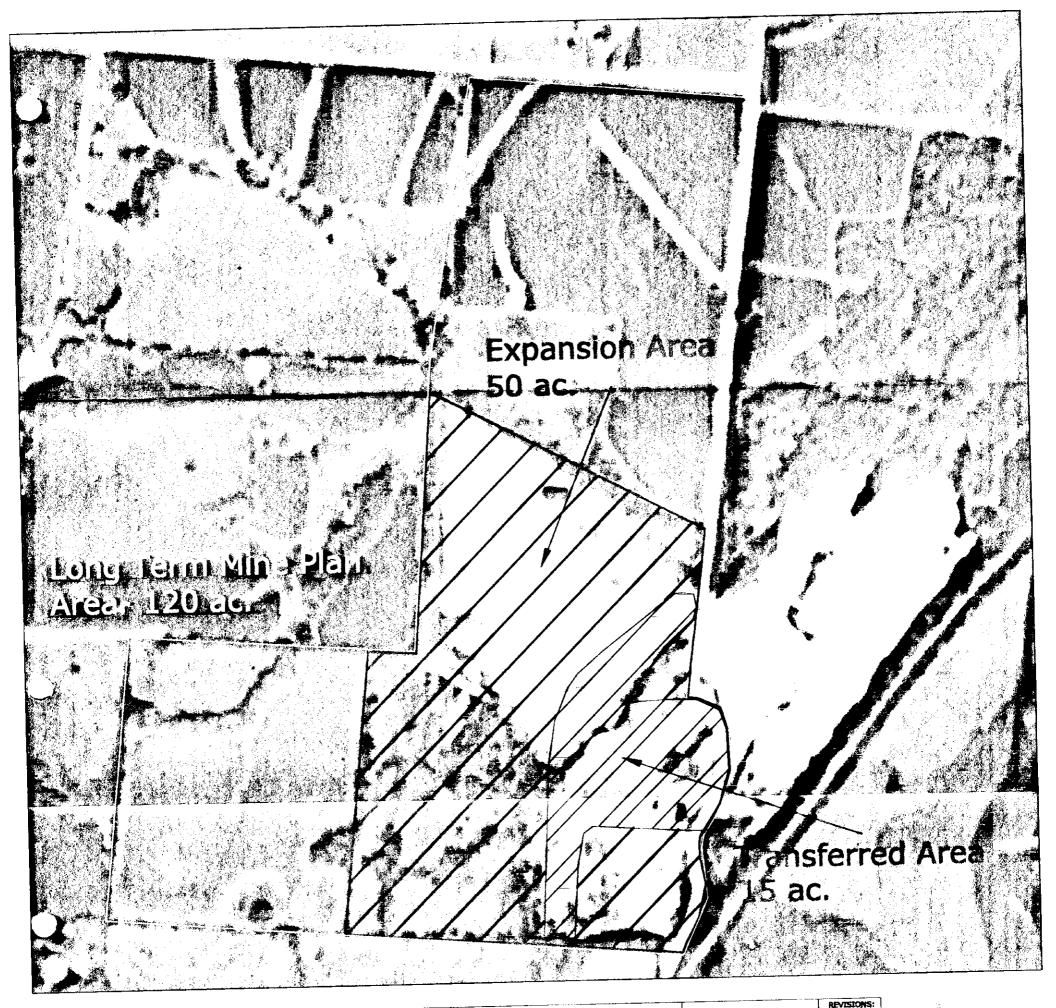
Scale 1" = 425'

Nettleton Quarry

DRAWN BY:

Christopher R. Schwedtmann 6/28/01





APAC-Missouri, Inc.

Central Missouri Division

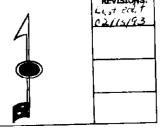
Detail Map- Permit #0688

Caldwell County, Secs. 1&12, T57N, R27W
6 & 7, T57N, R26W

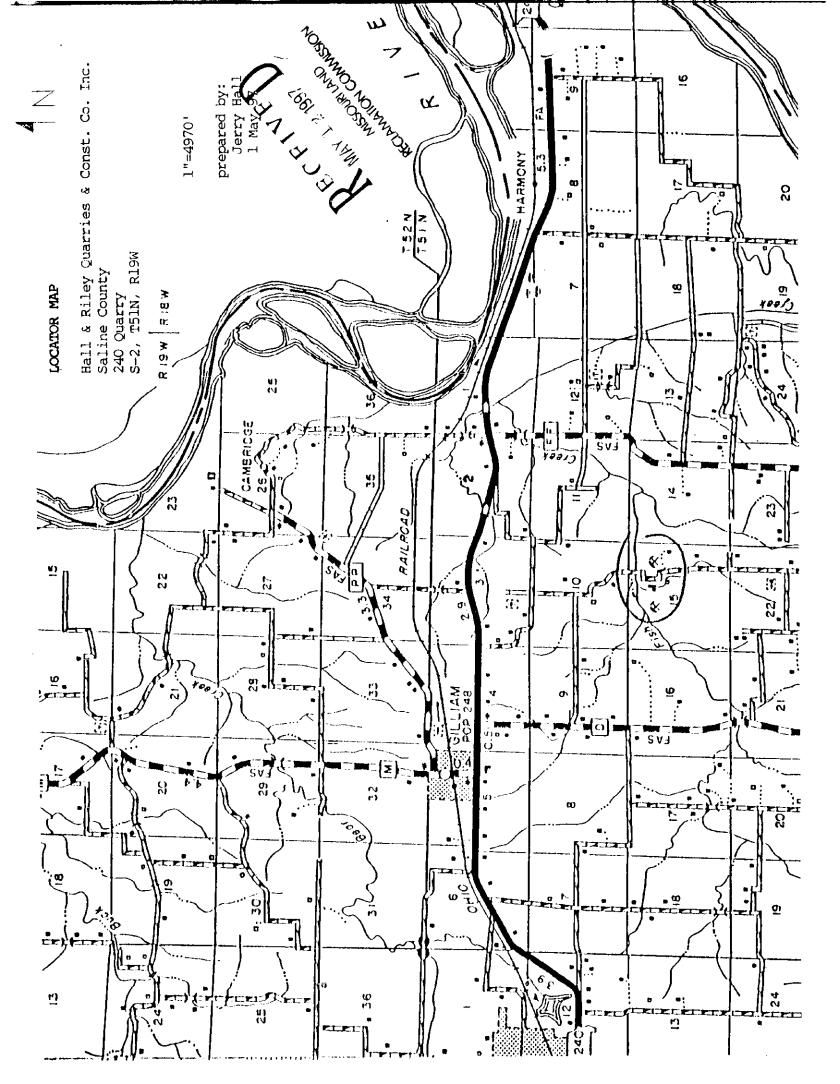
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Nettleton Quarry

Christopher R. Schwedtmann 6/28/01

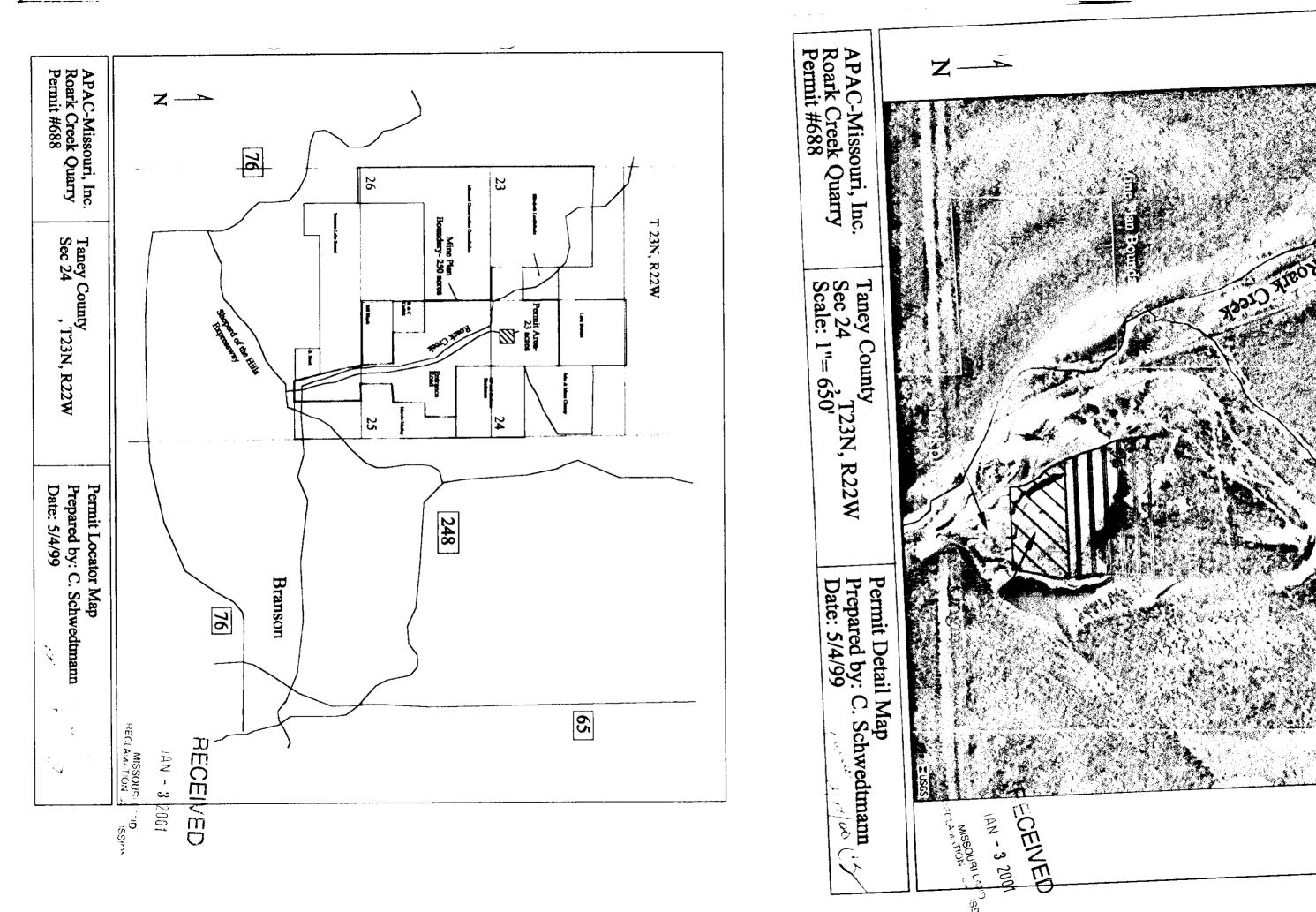


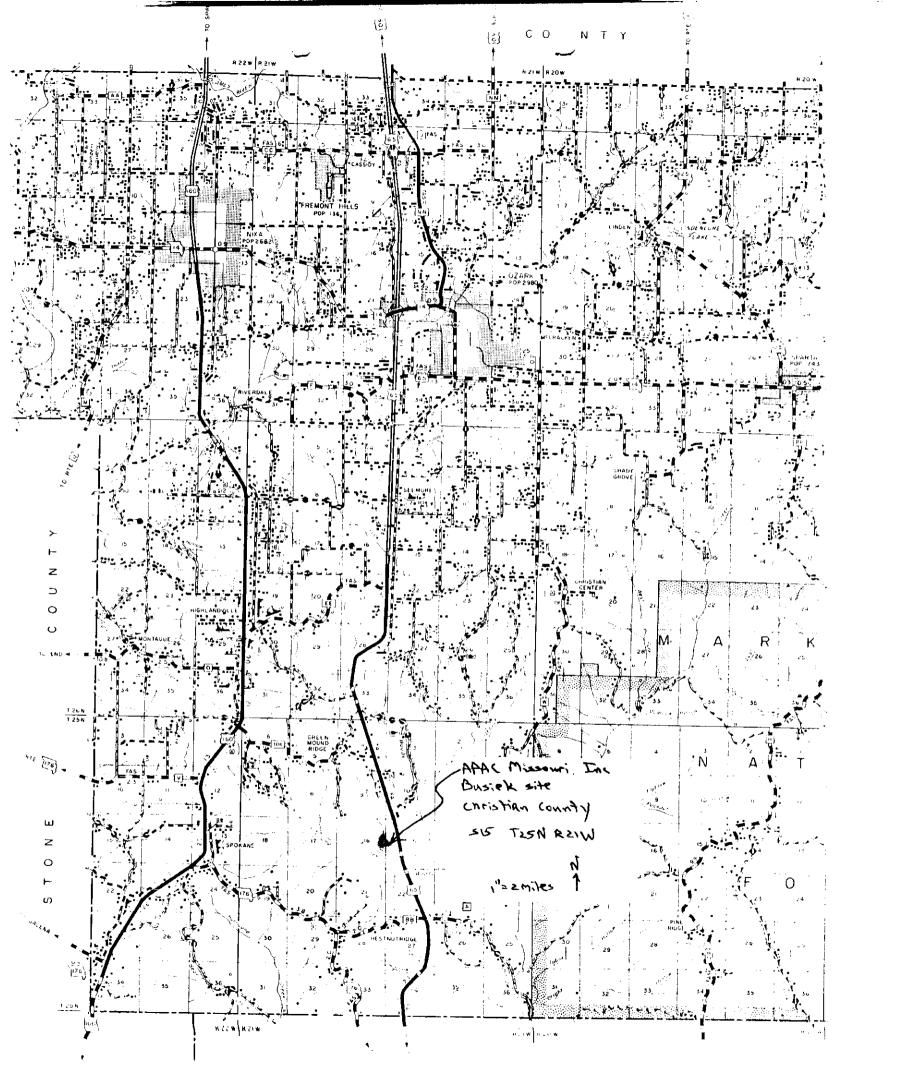
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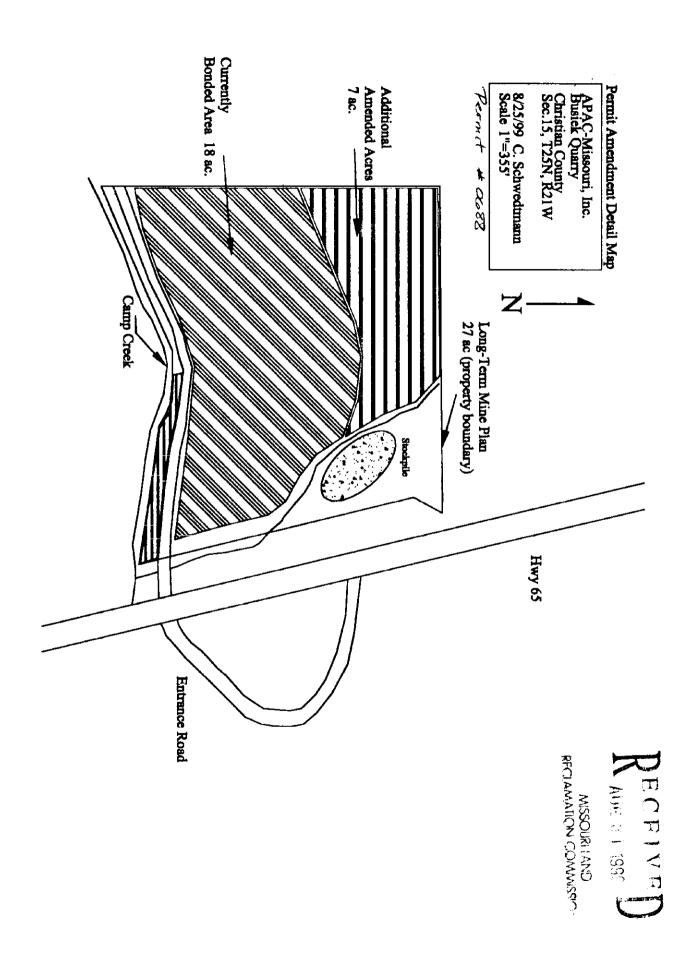




Overburden Storag Lake, bonded Industrial









Map symbols consist of numbers or a combination of numbers and a letter. The initial numbers represent the kind of soil. A capital letter following these numbers indicates the class of slope. Symbols without a slope letter are for miscellaneous areas.

SYMBOL NAME		
5C	Wilderness cherty silt loam, 2 to 9 percent slopes	
6B	Creldon silt loam, 1 to 4 percent slopes	
8B	Captina-Needleye silt loams, 1 to 3 percent slopes	
21B	Peridge silt loam, 2 to 5 percent slopes	
22C	Ocie cherty silt loam, 2 to 9 percent slopes	
23B	Bolivar fine sandy loam, 2 to 5 percent slopes	
	Occupied Ocie-Rock outcrop complex, 9 to 35 percent stopes	
25D	Ocie-Bardley-Gatewood complex, 2 to 14 percent slopes	
27 D	Bolivar stony fine sandy loam, 2 to 14 percent slopes	
35D	Doniphan-Clarksville cherty silt loams, 2 to 14 percent slopes	
43C	Goss cherty silt loam, 2 to 9 percent slopes	
43D	Goss cherty silt loam, 9 to 14 percent slopes	
44G	Goss-Gasconade complex, 2 to 50 percent slopes	
45D	Clarksville very cherty silt loam, 5 to 14 percent slopes	
45E	Clarksville very cherty silt loam, 14 to 20 percent slopes	
45F	Clarksville very cherty silt loam, 20 to 35 percent slopes	
45G	Clarksville very cherty silt loam, 35 to 60 percent slopes	
55 A	Huntington silt loam, 0 to 3 percent slopes	
81B	Tonti silt loam, 2 to 5 percent slopes	
€ G	Gasconade-Rock outcrop complex, 9 to 85 percent stapes	
92 A	Cedargap-Secesh silt loams, 0 to 3 percent slopes	
93A	Cedargap cherty silt loam, 0 to 3 percent slopes	
94	Pits-Dumps complex	





MAR 01 1994

MISSOURI LAND

RECLAMATION COMMISSION slopes. The deep Ocie soil is on north- and east-facing

slopes.

Typically, the Gatewood soil has a surface layer of dark grayish brown, friable cherty silt loam about 2 inches thick. The subsurface layer is brown, friable very cherty silt loam about 4 inches thick. The subsoil is about 29 inches thick. It is strong brown, firm clay in the upper part; yellowish brown, very firm clay in the middle part; and multicolored, very firm channery clay in the lower part. Hard dolomite is at a depth of about 35 inches. In many places the clayey subsoil is red. Some areas are very steep.

Typically, the Ocie soil has a surface layer of brown. very friable cherty silt loam about 6 inches thick. The subsurface layer is yellowish brown, mottled, friable very cherty silt loam about 10 inches thick. The strong brown, mottled subsoil is about 32 inches thick. It is friable very cherty silty clay loam in the upper part, firm cherty silty clay in the middle part, and firm cherty clay in the lower part. Hard dolomite is at a depth of about 48 inches. Rock outcrop consists of exposures of dolomite bedrock and, in places, sandstone bedrock.

Included with the Gatewood and Ocie soils and Rock outcrop in mapping and making up about 15 percent of the map unit are areas of moderately deep, well drained Bardley soils; shallow, somewhat excessively drained Gasconade soils; shallow, well drained soils; and deep, well drained soils that are more than 60 inches thick over dolomite bedrock. The Bardley soils are on southand west-facing slopes, and the Gasconade soils and other shallow soils are on rough breaks and knobs near the dolomite, limestone, and sandstone bedrock. The other deep soils are on north- and east-facing slopes.

Permeability is slow in this Gatewood soil. Surface runoff is rapid. The available water capacity is low. The subsoil is neutral to strongly acid. The natural fertility is low. The organic matter content is low or moderately low. The shrink-swell potential is high. Rooting depth is restricted by hard dolomite bedrock between depths of 20 and 40 inches.

Permeability is moderate in the upper part of the profile and slow in the lower part in this Ocie soil. Surface runoff is rapid. The available water capacity is low. A perched water table is at a depth of 3 to 5 feet from December to April in most years. The subsoil is slightly acid to very strongly acid. The natural fertility is low. The organic matter content is low or moderately low. The shrink-swell potential is high. Rooting depth is restricted by hard dolomite bedrock between depths of 40 and 60 inches.

Most areas of these soils are in poor quality to good quality woodland. Some areas are used for hay and pasture. These soils are unsuited to row crops because of steep slopes and Rock outcrop.

The Gatewood soil is poorly suited to trees, and the Ocie soil is moderately well suited to trees. Many areas remain in native hardwoods. Scrub hardwoods and

inches. The surface layer is very friable and is easy to till.

Most areas of this soil have been cleared and are used for hay and pasture. A few areas are used for row crops or are in woodland. This soil is well suited to coolseason grasses, warm-season grasses, and some kinds of legumes. Growing well managed grasses and legumes for pasture is an effective means of controlling erosion. Proper stocking rates, pasture rotation, and timely deferment of grazing help to keep the pasture and soil in good condition.

This soil is moderately well suited to row crops and small grains. If this soil is used for intertilled row crops. the hazard of erosion is severe. Conservation tillage, winter cover crops, terraces and contour farming where the slopes are long enough and smooth enough, and grassed waterways help to prevent excessive soil loss. Returning crop residue or the regular addition of other organic material helps to improve fertility.

This soil is moderately well suited to trees. A few areas remain in native hardwoods. There are no limitations or hazards for planting or harvesting trees.

This soil is suitable for building site development and for onsite waste disposal if proper design and installation procedures are used. Concrete footings, foundations, and basement walls should be designed and constructed with adequate reinforcement steel and backfilled with sand or gravel to prevent damage caused by shrinking and swelling of the soil. Rock should be excavated or dwellings designed without basements. Mounding or raising the site of the absorption field with suitable fill material reduces the likelihood of polluting the ground water. The berms of lagoons should be built up with additional material to modify the depth to bedrock and the bottom sealed with slowly permeable material to overcome seepage. This soil is suitable for local roads and streets, but low strength, shrinking and swelling of the subsoil, and frost action are limitations. Adding crushed rock or other suitable base material helps to prevent damage caused by low strength. Grading the roads to shed water and providing adequate side ditches and culverts help to prevent damage caused by shrinking and swelling of the soil.

This Bolivar soil is in capability subclass IIIe and woodland suitability subclass 4o.

24F—Gatewood-Ocie-Rock outcrop complex, 9 to 35 percent slopes. This map unit consists of strongly sloping to steep, moderately well drained soils and Rock outcrop on side slopes of ridges on uplands. The percentage of Gatewood soil, Ocie soil, and Rock outcrop varies from place to place, but averages about 40 percent Gatewood soil, 30 percent Ocie soil, and 15 percent Rock outcrop. Individual areas are irregular in shape and range from about 5 acres to more than 1,100 acres. The moderately deep Gatewood soil and the Rock outcrop generally are on south- and west-facing



eastern redcedar are on the south- and west-facing slopes, and good quality hardwoods are on the northand east-facing slopes. Erosion is a hazard on these soils. Careful design and construction of roads and skid trails are required to minimize the steepness and length of slope and the concentration of water. Steepness of slope limits the use of equipment, but this limitation can be overcome by placing roads and skid trails on the contour, or, where necessary, by yarding the logs uphill to logging roads and skid trails. Seeding disturbed areas may be needed after harvesting is completed. The use of tree planting equipment and site preparation equipment is restricted because of the chert content of the soils. Planting seedlings by hand or direct seeding may be necessary. Seedling mortality and the hazard of windthrow are limitations on the Gatewood soil, but these limitations can be overcome by planting stock of larger size than usual and by lighter, less intensive, and more frequent thinnings to reduce stand density.

These soils are moderately well suited to cool-season grasses, warm-season grasses, and some kinds of legumes. Using well managed grasses and legumes for pasture is an effective means of controlling erosion. Overgrazing or grazing when the soils are wet causes surface compaction and reduces the stand of grasses and legumes. Proper stocking rates, pasture rotation, and timely deferment of grazing help to keep the pasture and soils in good condition.

These soils generally are unsuitable for building site development and onsite waste disposal because of the high shrink-swell potential of the clayey subsoil, slope, depth to bedrock, and slow permeability.

These Gatewood and Ocie soils and Rock outcrop are in capability subclass VIIs. The Gatewood soil is in woodland suitability subclass 5c, and the Ocie soil is in woodland suitability subclass 4f.

25D—Ocie-Bardley-Gatewood complex, 2 to 14 percent slopes. This map unit consists of deep, gently sloping to strongly sloping, moderately well drained Ocie soil; moderately deep, gently sloping to strongly sloping, well drained Bardley soil; and moderately deep, gently sloping to strongly sloping, moderately well drained Gatewood soil. These soils are on ridges on uplands. The percentage of Ocie soil, Bardley soil, and Gatewood soil varies from place to place, but averages about 45 percent Ocie soil, 30 percent Bardley soil, and 15 percent Gatewood soil. Individual areas are irregular in shape and range from about 5 acres to more than 200 acres.

Typically, the Ocie soil has a surface layer of pale brown silt loam about 6 inches thick. The subsoil is about 39 inches thick. It is light yellowish brown, friable cherty and very cherty silt loam in the upper part; yellowish brown, mottled, firm cherty clay in the middle part; and multicolored, firm clay in the lower part. Hard dolomite is at a depth of about 45 inches.

Typically, the Barticy AND Typically, the Barticy AND Typically, the Barticy AND Gowdays wer of dark grayish brown, friable very cherty silt loam about 3 inches thick. The subsoil is about 19 inches thick. It is yellowish red, firm cherty silty clay in the upper part; dark red and yellowish red, very firm clay in the middle part; and dark red and brown, very firm cherty clay in the lower part. The substratum extends to a depth of about 26 inches. It is multicolored, very firm clay and is underlain by a thin layer of weathered dolomite over hard dolomite bedrock.

Typically, the Gatewood soil has a surface layer of very dark grayish brown, friable silt loam about 4 inches thick. The subsoil is about 30 inches thick. It is yellowish brown, mottled, firm very cherty silty clay in the upper part; yellowish brown, mottled, very firm silty clay and sandy clay in the middle part; and multicolored, firm clay in the lower part. Hard dolomite is at a depth of about 34 inches.

Included with these soils in mapping and making up about 10 percent of the map unit are areas of shallow, somewhat excessively drained Gasconade soils and other shallow, well drained soils and Rock outcrop. The Gasconade soils and the other shallow soils are near rough breaks and knobs. The Rock outcrop is on the rough breaks and knobs.

Permeability is moderate in the upper part of this Ocie soil and slow in the lower part. Surface runoff is medium to rapid. The available water capacity is low. A perched water table is at a depth of 3 to 5 feet from December to April in most years. The subsoil ranges from slightly acid to very strongly acid. The natural fertility is low. The organic matter content is low or moderately low. The shrink-swell potential is high. Rooting depth is restricted by hard dolomite bedrock between depths of 40 and 60 inches.

Permeability is moderate in this Bardley soil. Surface runoff is medium to rapid. The available water capacity is very low. The subsoil ranges from slightly acid to very strongly acid. The natural fertility is low. The organic matter content is low or moderately low. The shrink-swell potential is high. Rooting depth is restricted by hard dolomite bedrock between depths of 20 and 40 inches.

Permeability is slow in this Gatewood soil. Surface runoff is medium to rapid. The available water capacity is low. The subsoil ranges from neutral to strongly acid. The natural fertility is low. The organic matter content is low or moderately low. The shrink-swell potential is high. Rooting depth is restricted by hard dolomite bedrock between depths of 20 and 40 inches.

Most areas of these soils are in woodland. Some areas are used for hay and pasture. These soils generally are unsuited to row crops because of slope, the chert content of the soils, and Rock outcrop. The Ocie soil is moderately well suited to trees, but the Bardley and Gatewood soils are poorly suited to trees. Many areas remain in native hardwoods, together with some redcedar and native pine. Seedling mortality and



Soil Survey

MISSOURI LAND RECLAMATION COMMISSION

silty clay about 7 inches thick. Hard dolomite is at a depth of about 17 inches. In some places the subsoil is red. In other places the soil material is less than 4 inches thick over bedrock. A few areas are moderately sloping.

Rock outcrop consists of areas of exposed dolomite bedrock and areas of limestone and sandstone bedrock.

Included with the Gasconade soil and Rock outcrop in mapping and making up as much as 5 to 10 percent of the map unit are areas of well drained Bardley soils and moderately well drained Gatewood soils. These soils, which are in random pockets, are 20 to 40 inches thick over dolomite bedrock. Also included are some areas on ridgetops that are gently sloping.

Permeability is moderately slow in this Gasconade soil. Surface runoff is rapid. The available water capacity is very low. The subsoil ranges from mildly alkaline to slightly acid. The natural fertility is medium. The organic matter content is moderate. The shrink-swell potential is moderate. Rooting depth is restricted between depths of 4 and 20 inches by hard dolomite or limestone bedrock.

Most of the acreage is idle glades in woodland and marginal pasture. This soil is unsuited to cultivated row crops because of steep slopes, the cherty or flaggy content of the soil, shallow depth to bedrock, and Rock outcrop.

This soil is poorly suited to trees. Many areas remain in native warm-season grasses, native eastern redcedar, and scrub hardwoods. Trees are harvested mostly for posts. Erosion is a hazard on this soil. Careful design and construction of roads and skid trails are needed to minimize the steepness and length of slope and the concentration of water. Steepness of slope and a flaggy or cherty soil restrict the use of equipment, but these limitations can be minimized by placing roads and skid trails on the contour or, where necessary, by yarding the logs uphill to logging roads and skid trails. Seeding disturbed areas may be needed after harvesting is completed. Because the use of tree planting equipment and site preparation equipment is severely restricted, planting seedlings by hand or direct seeding may be necessary. Seedling mortality and windthrow can be reduced by planting stock of larger size than usual and by lighter, less intensive, and more frequent thinnings to reduce stand density.

This soil is poorly suited to cool-season grasses, warm-season grasses, and legumes. Growing well managed grasses and legumes for pasture, however, is an effective means of controlling erosion. Overgrazing causes surface compaction, excessive runoff, and poor tilth. Proper stocking rates, pasture rotation, and timely deferment of grazing help to keep the pasture and soil in good condition.

This soil generally is unsuitable for building site development and onsite waste disposal because of the shallow depth to bedrock, Rock outcrop, and steep slopes.



Figure 15.—Fescue hay in large round bales on Tonti silt loam, 2 to 5 percent slopes.

properly designed and constructed. This soil is suitable for local roads and streets, but low strength, seasonal wetness, and frost action are limitations. Adding crushed rock or other suitable base material helps to prevent damage caused by low strength. Grading the roads to shed water and providing adequate side ditches and culverts help to prevent damage caused by wetness and frost action.

This Tonti soil is in capability subclass Ille and woodland suitability subclass 4d.

83G—Gasconade-Rock outcrop complex, 9 to 65 percent slopes. This map unit consists of shallow, strongly sloping to very steep, somewhat excessively drained Gasconade soil and dolomite or limestone Rock outcrop. It is on rough, broken side slopes and knobs of uplands. The percentage of Gasconade soil and Rock outcrop varies from place to place but averages about 65 percent Gasconade soil and 25 percent Rock outcrop. Individual areas are irregular in shape and range from about 10 acres to more than 400 acres. Dolomite and chert stones are on the surface in parts of this map unit. In other places sandstone bedrock is near the surface and on the surface.

Typically, the Gasconade soil has a surface layer of very dark brown, firm flaggy silty clay about 10 inches thick. The subsoil is very dark grayish brown, firm flaggy

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This Gasconade soil and Rock outcrop are in capability subclass VIIs. The Gasconade soil is in woodland suitability subclass 5d.

92A—Cedargap-Secesh silt loams, 0 to 3 percent slopes. This map unit consists of deep, nearly level, well drained soils on flood plains. The Cedargap soil is adjacent to the stream channel, and the Secesh soil is on a higher flood plain adjacent to the upland. Flooding is frequent on the Cedargap soil and occasional on the Secesh soil. This map unit is about 55 percent Cedargap soil and 30 percent Secesh soil. Individual areas are long and moderately wide to narrow. They are irregular in shape and range from about 10 acres to more than 400 acres.

Typically, the Cedargap soil has a surface layer of dark brown, very friable silt loam about 12 inches thick. The subsurface layer is dark brown, very friable and friable cherty and extremely cherty silt loam about 30 inches thick. The substratum extends to a depth of 65 inches or more. It is very dark brown, friable extremely cherty clay loam in the upper part and dark reddish brown, friable very cherty silty clay loam in the lower part. In places the surface layer is cherty.

Typically, the Secesh soil has a surface layer of dark brown, very friable silt loam about 10 inches thick. The subsoil extends to a depth of 65 inches or more. It is brown, friable silt loam in the upper part; reddish brown, friable silty clay loam in the middle part; and reddish brown, mottled, firm extremely cherty clay loam and multicolored, firm extremely cherty clay loam in the lower part. Some areas adjacent to the upland are gently sloping.

Included with these soils in mapping and making up about 15 percent of the map unit are areas of Huntington soils and other cherty soils. The Huntington soils are on wider areas of the flood plains and are free of chert. The other soils are near the stream channel on the flood plain and on foot slopes.

Permeability is moderately rapid in this Cedargap soil. Surface runoff is slow. The available water capacity is moderate. The substratum ranges from neutral to medium acid. The natural fertility is medium. The organic matter content is moderately low or moderate.

Permeability is moderate in this Secesh soil. Surface runoff is slow. The available water capacity is moderate. The subsoil ranges from very strongly acid to medium acid. The natural fertility is low. The organic matter content is moderately low.

Most areas of these soils are in hay and pasture. A few areas are used for row crops or are in woodland (fig. 16). These soils are well suited to cool-season grasses, warm-season grasses, and some kinds of legumes. Growing well managed grasses and legumes for pasture is an effective means of controlling scouring caused by flooding. Overgrazing or grazing when the soils are wet causes surface compaction and reduces the stand of



Figure 16.—Young walnut trees on Cedargap-Secesh silt loams, 0 to 3 percent slopes.

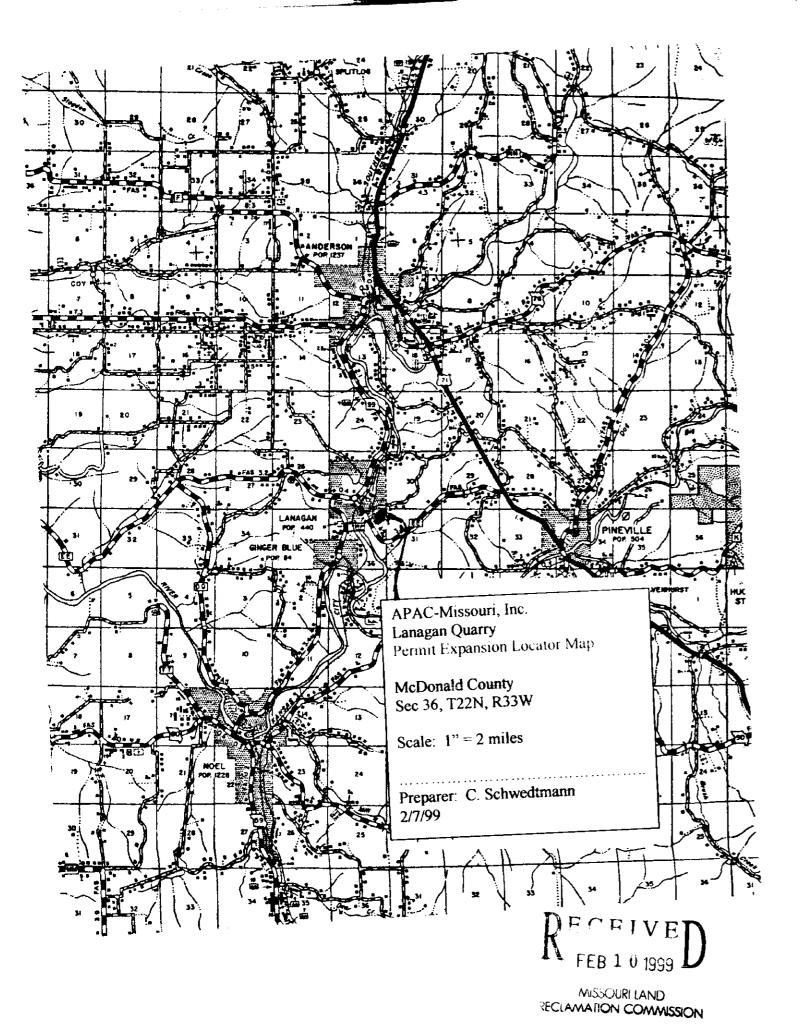
grasses and legumes. Proper stocking rates, pasture rotation, and timely deferment of grazing help to keep the pasture and soils in good condition.

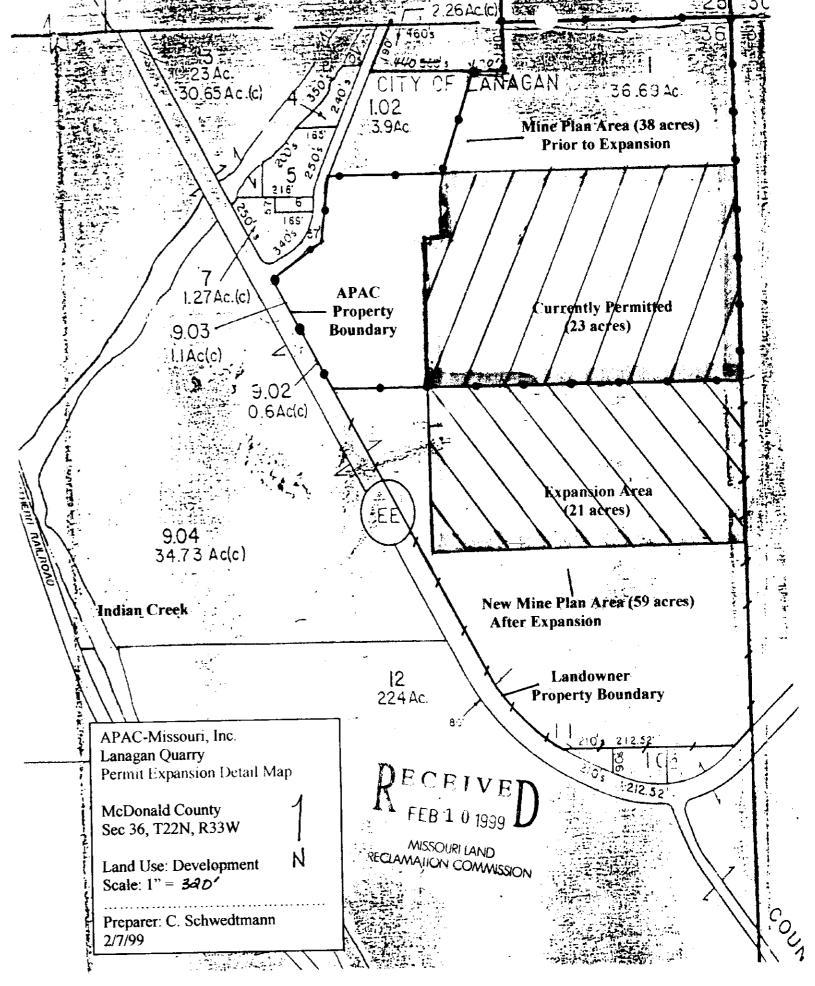
These soils are well suited to row crops and small grains; however, scouring caused by flooding is a hazard. Conservation tillage, winter cover crops, and diversion terraces help to protect these soils from erosion, from scouring caused by flooding, and from excessive runoff from the uplands. Returning crop residue or the regular addition of other organic material helps to improve fertility, reduce crusting, and increase water infiltration.

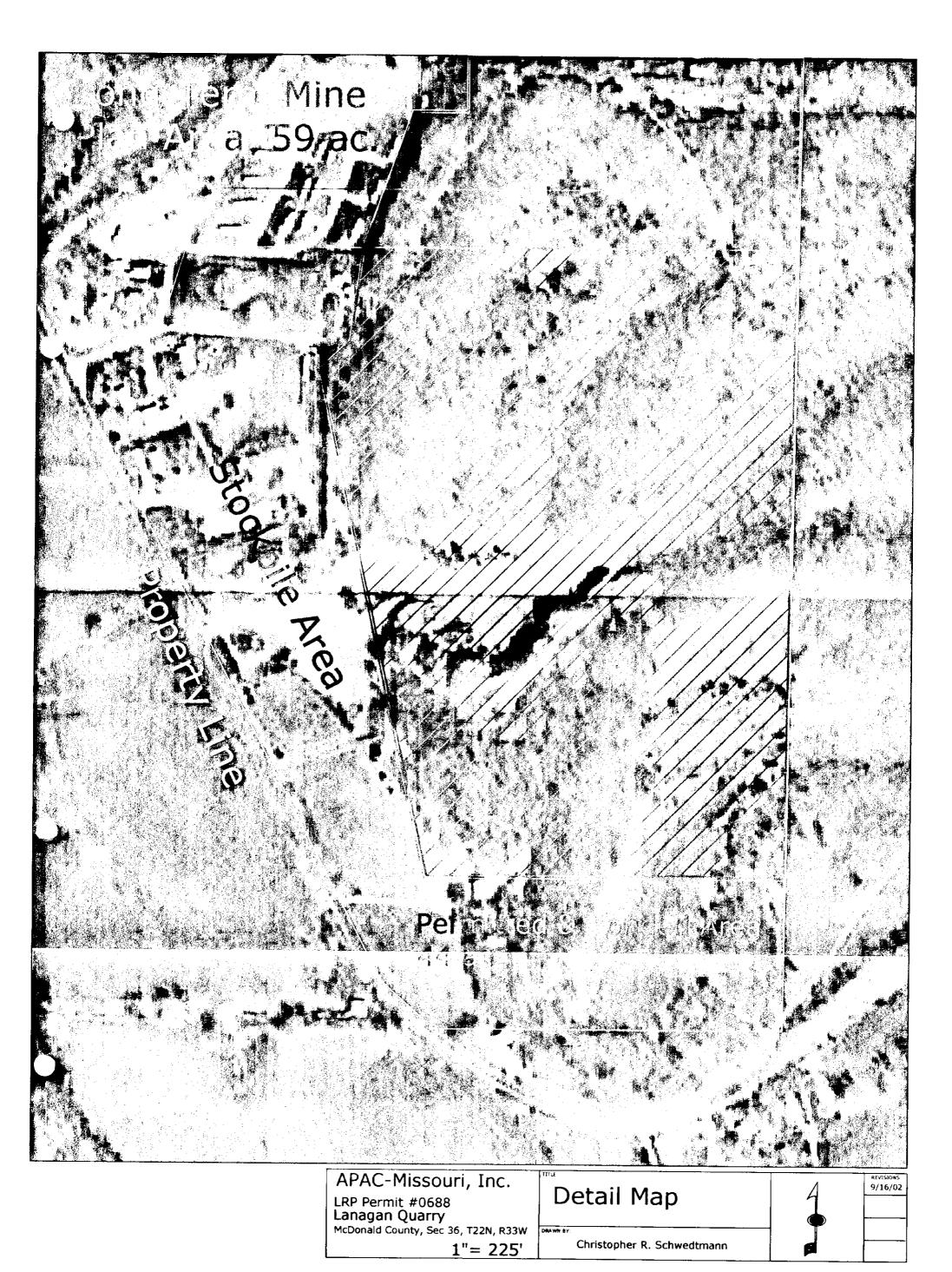
The Cedargap soil is well suited to trees, and the Secesh soil is moderately well suited to trees. A few areas remain in native hardwoods. Seedling mortality and plant competition are limitations on the Cedargap soil, but these limitations can be overcome by planting special stock of larger size than usual and by careful and thorough site preparation, including prescribed burning, spraying, or cutting. Release treatment may be necessary to ensure development.

These soils generally are unsuitable for building site development and onsite waste disposal because of frequent flooding on the Cedargap soil and occasional flooding on the Secesh soil.

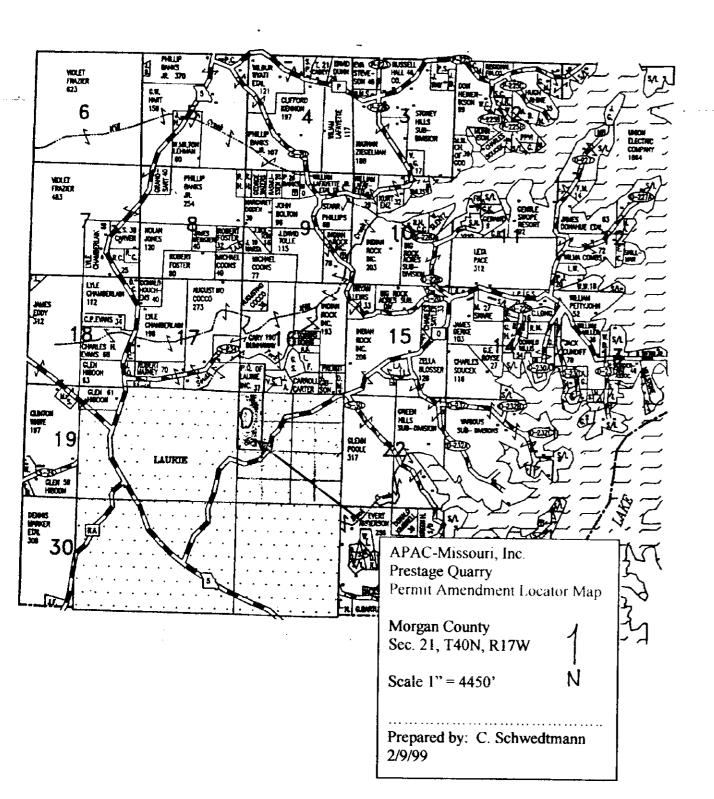
These Cedargap and Secesh soils are in capability subclass IIs. The Cedargap soil is in woodland suitability

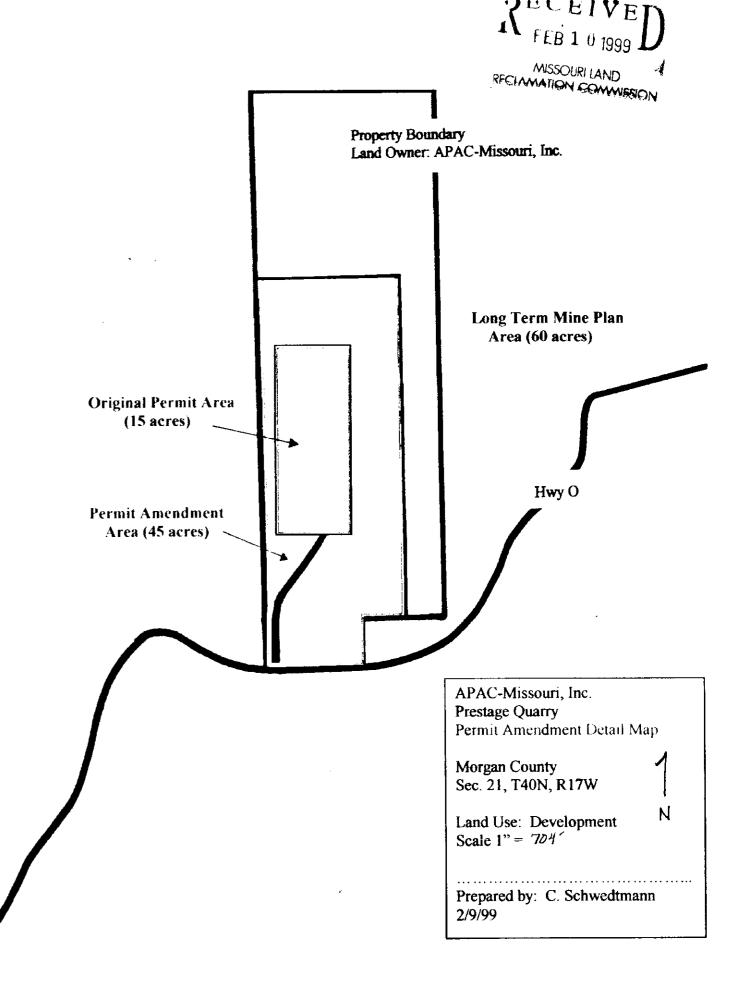


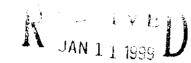




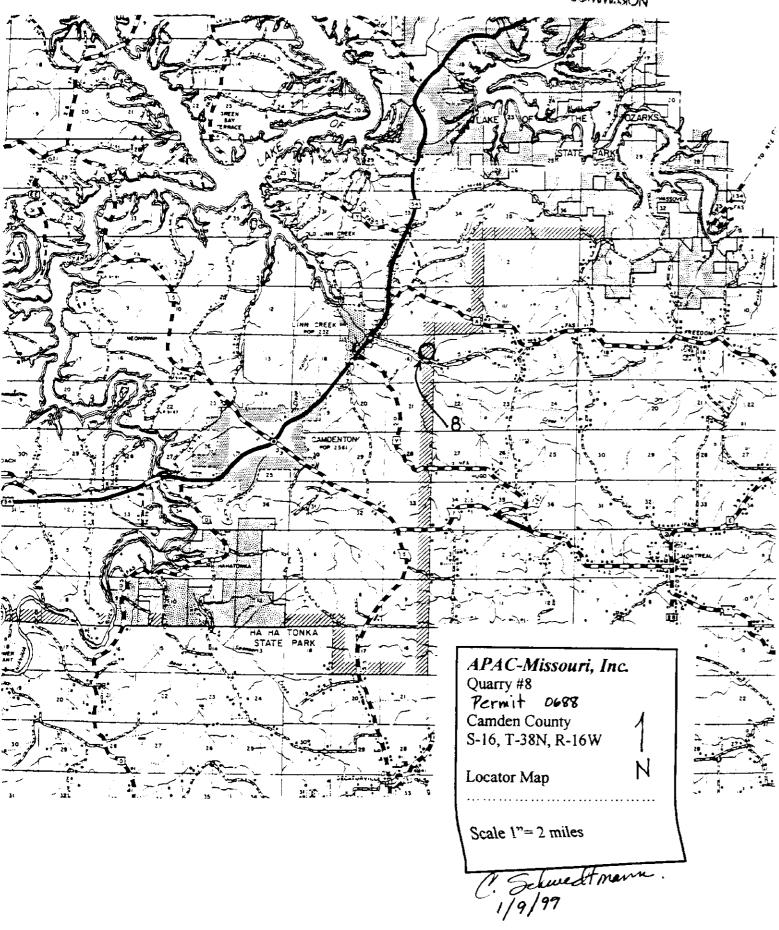




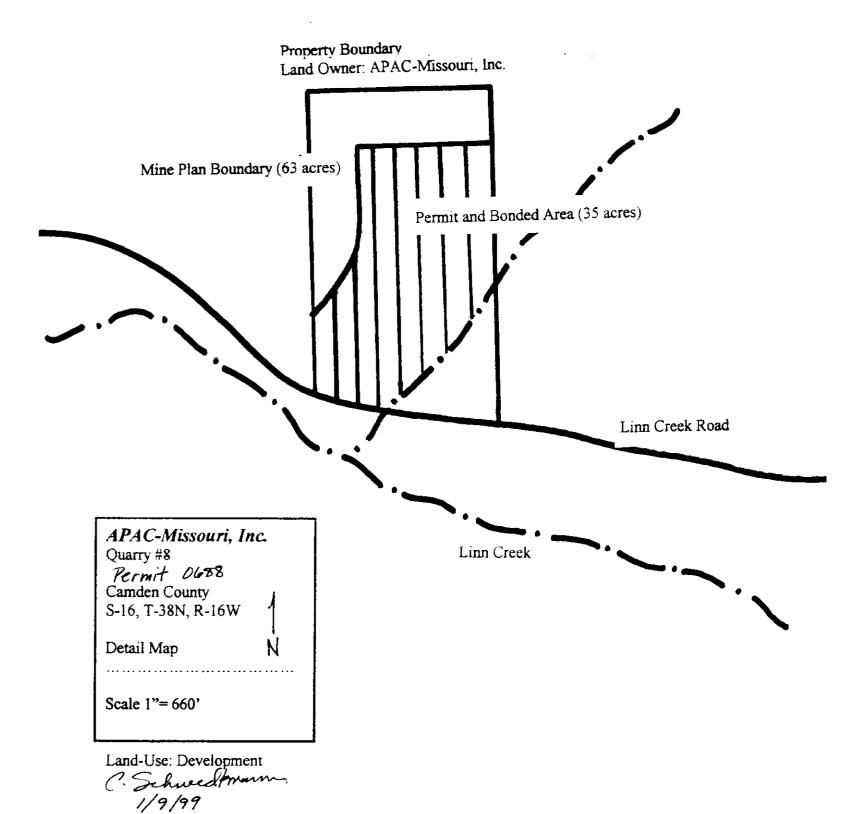




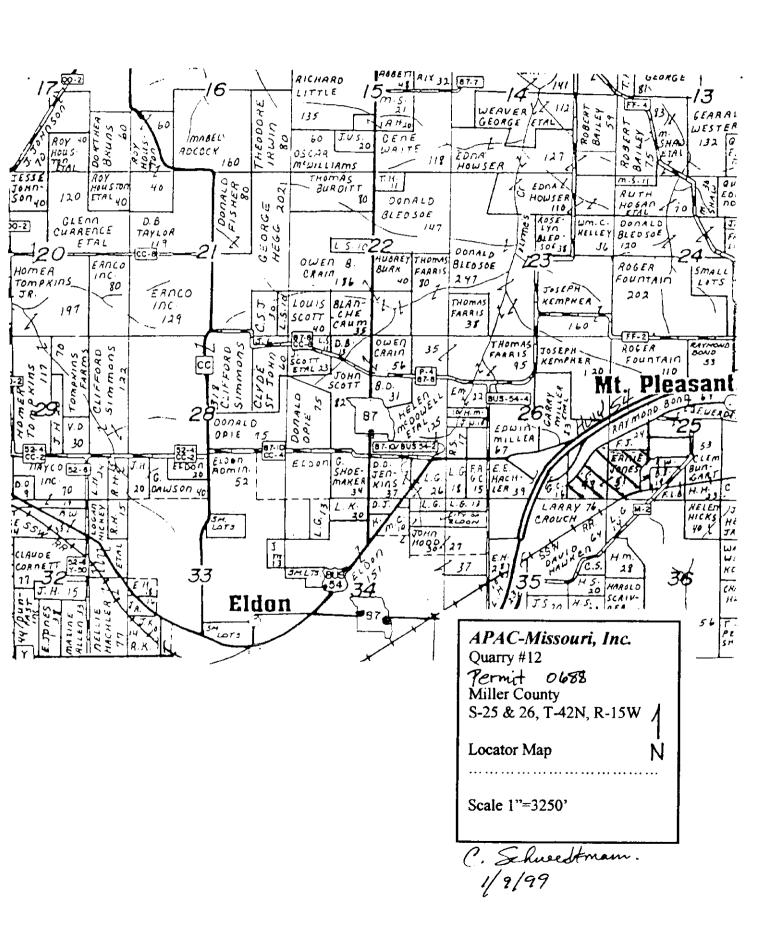
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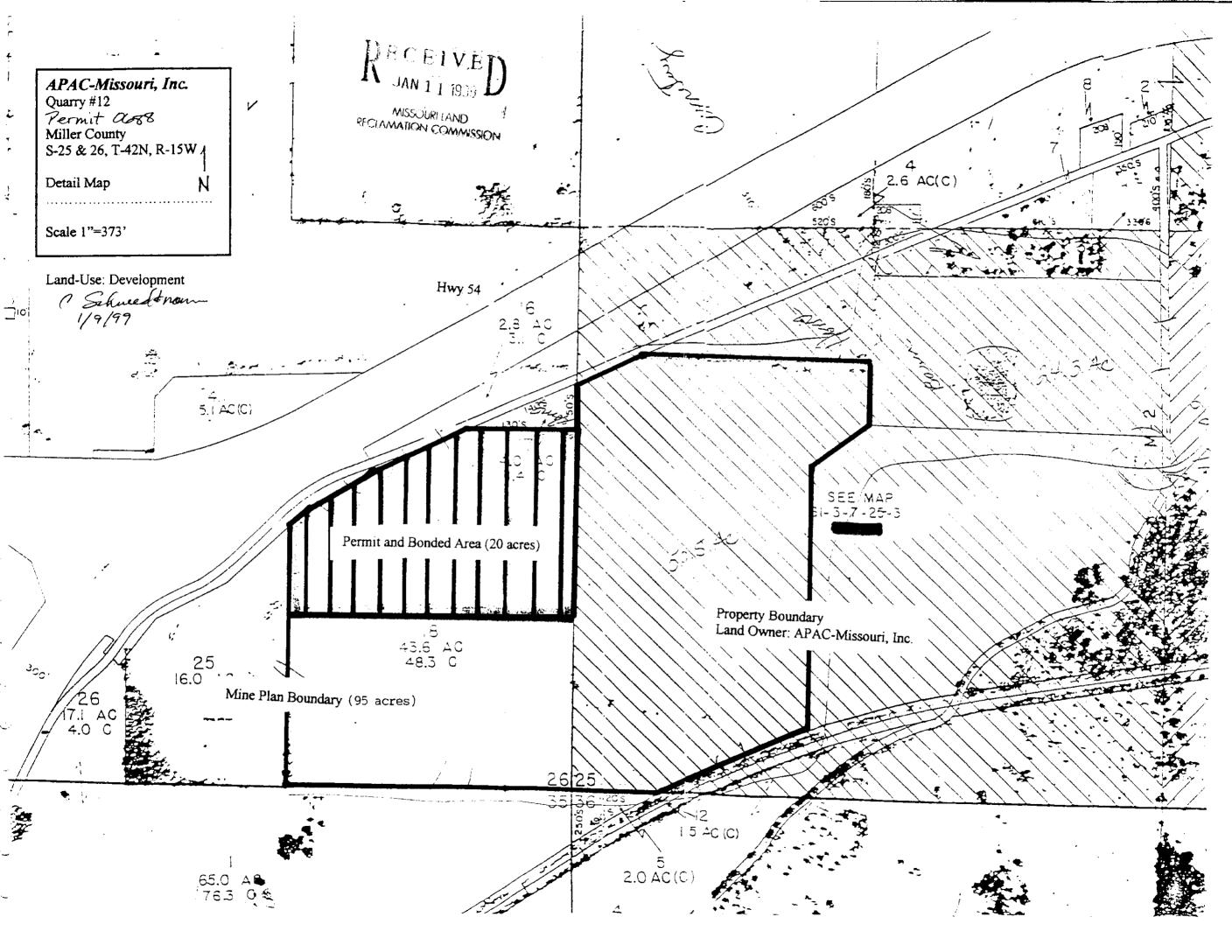












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